THE ROSCOE MANUAL Volume 3: Program Structure

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October 1975

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Prepared for
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Nuclear Effects Computer Program Radar Simulation Optical Sensors Ballistic Missile Def	ense
The ROSCOE computer code is designed specific standard for evaluating nuclear effects on radar provides a means for (1) evaluating radar acquisi tracking performance in a nuclear environment, (2) propogation error sources, and (3) computing specific	systems. The program tion, discrimination, and) measuring various
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N²⁰. ABSTRACT (Continued)

The ROSCOE users manual is divided into four volumes:

Volume 1: Program Description

Volume 2: Sample Cases

Volume 3: Program Structure

Volume 4: Systems Models

Volume 1 provides the user with a brief overview of the code, a description of the input and output, and some sample input decks. Volume 2 contains illustrative examples showing the use of the code in various modes. Volume 3 presents structural details of the code (such as the subroutine structure and dataset structure) for the programmer-user. Volume 4 describes the systems content of the code.



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INTRODUCTION

The previous two volumes gave insight into the program structure, but not the detailed information necessary to delve into the code listings. The previous information should be satisfactory for the user who is willing to accept the program output as reasonable and is only interested in running his case; but the analyst or programmer who needs to assess the applicability of a model to his purposes, or wishes to modify the code, requires additional structural details. The intent of this volume is to provide these details.

This volume is divided into two sections. The first provides detailed information about the dataset structure used in the systems and physics interface modules. The second contains detailed information about the length and calling structure of labeled common blocks, subroutines, and functions.

SECTION 1: DATASET NOTEBOOK

The dataset notebook is made up of the following parts:

- 1.1 Data Descriptor Deck
- 1.2 Complete Data Listings
- 1.3 Dataset List by Name
- 1.4 Dataset List by Mnemonic
- 1.5 Variable Name List
- 1.6 Dataset Calls

Section 1.1 consists of card images of a data descriptor deck which is the primary source for the parts which follow. The first card in each dataset contains the word NEW in columns 1-3; a two-character mnemonic in columns 5-10, which identifies the dataset and which is appended as a suffix to the names of all the variables in that dataset; and the dataset name starting in column 15. Succeeding cards describe the individual variables in the dataset. These cards are punched as follows:

- Column 1: Fortran variable type (where H = Hollerith, I = integer,
 R = real, Ri = vector of length i, Ai = array of length
 i, DSP = pointer to another dataset, LHV = list header
 variable, P = continuation card for variable definition)
- Column 5: Variable name (five characters or less to which the two-character dataset mnemonic will be added)
- Column 15: Variable description

The data descriptor deck is passed through a processing program (PRINOUT) to produce the next four parts of the dataset notebook. This program also produces punched-card equivalence blocks for each dataset suitable for automatic inclusion in the compiled programs which require them.

Section 1.2 is a segment of the output from the PRINOUT program. This part prints the contents of the datasets and their composite mnemonics in an easy-to-read form. The two-letter dataset mnemonic, the dataset name, and a number are given on the first line. This is followed by descriptions of each word in the dataset including the word number, the Fortran variable type (integer, real, Hollerith, DSP, or LHV), and a short phrase describing the variable. In addition, the total number of words in the dataset is provided. (Note that the number of words exceeds the number of variables when any of them are vectors or arrays.)

The next two outputs from PRINOUT (Secs. 1.3 and 1.4) are lists of the datasets, alphabetized by name and by the two-character mnemonic, respectively. In each case, the dataset number is given so that the desired dataset information can be quickly found in Sec. 1.2.

The last output from PRINOUT (Sec. 1.5) is an alphabetical list of all variables in the dataset notebook, with the mnemonics and numbers of the datasets in which they reside. Thus to find the definition of a particular variable, the user can look it up in this part of the notebook, get the dataset number, and look up the variable definition in Sec. 1.2.

Finally, Sec. 1.6 contains dataset calling structure information. Here, each dataset (and common block) is given on the left, followed by a list of all subroutines which use it on the right. This listing can be useful to the programmer when a dataset is revised, so that all subroutines which call it can be recompiled and make use of the new data.

SECTION 2: PROGRAM STRUCTURE NOTEBOOK

A second notebook showing some elements of the program structure is given in Sec. 2, which includes the following parts:

- 2.1 Subroutine Length/Externals
- 2.2 List of Routines Calling a Specific Subroutine
- 2.3 List of Routines Containing a Specific Common
- 2.4 List of Routines Called by a Specific Subroutine

Section 2.1 is a list of all ROSCOE subroutines, programs, and functions. The basic ROSCOE routines are given in alphabetical order, followed by the FLEXRED, DSA, and TRAID routines ordered as they currently exist on these files. The routines are numbered and the date they were last compiled is given. This list shows the program length, the externals called directly by this routine (including library subroutines and functions), the common blocks used, and all entry points to the routine.

Section 2.2 again lists each subroutine alphabetically, this time with a list of all subroutines which call the given routine. A similar output for common blocks is given in Sec. 2.3. The form of this table is as follows: common block number, common block name (listed alphabetically), common block length, list of subroutines which contain this common. Note that the blank common storage area can be dimensioned differently in each routine.

Section 2.4 contains the complement of the information given in Sec. 2.2. That is, for each subroutine, a list is given of all the subroutines it calls (directly or in a secondary fashion). In addition, the total length of all subroutines called is given.

This list is particularly useful for determining overlay structure, since all the routines in a given overlay must be contained in the main program listing for that overlay. For example, the prompt energy deposition in the high-altitude grid is computed by program PROMPG. Section 2.4 shows that PROMPG and the routines it calls (and the routines they call, etc.) require 11033 words of storage, not including common storage and higher-level overlay storage.

Section 1

DATASET NOTEBOOK

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PART 1.1 - DATA DESCRIPTOR DECK

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POINTER TO OBJECT CORRESPONDING TO TARGET
CURRENT TARGET CROSSECTION
CURRENT TARGET SIGNALMALE
FAG INDICATING THIS IS (IS NOT) PRIMARY TARGET OF INTEREST
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LIST OF BERT TUGE CUPUT DATASETS (BF)

LIST OF CHA OUTPUT DATASETS (BF)

LIST OF CHA OUTPUT DATASETS (BF)

LIST OF CHA OUTPUT DATASETS

BURST PRAMATERS

FIREBALL SET-2 FORMATS

FIREBALL SET-2 FORMATS

FIREBALL SET-4 FORMATS

FIREBALL DATASET FOR GRAPHICAL OUTPUT AS PRINTERPLOTS/SIGGRIP 330

POLIVER TO THE FORMAT DATASET FOR THE GRAPHICAL PLOTS

BURST SET-3 FORMATS

FIREBALL DASSITON OUTPUT DATASET

FIREBALL DASSITON OUTPUT DATA
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RISE RATE (CH/SEC)
EXFANSION RATE (CH/SEC)
FIREBALL DENSITY AT BOTTOM OF FIREBALL (GM/CC)
FIREBALL TEMPERATURE (DEG K)
TIME SINCE BURST (SEC)
F2 PARAMETERS
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POINTER TO THE FIREBALL DATASET(FB)
TOTAL MASS LOADING FACTOR
MAXIMUM PARTICLE DIAMETER
MANS DENSITY OF SOIL LIFTED
INTIAL SCAED RADIUS
NUMBER OF PARTICLES IN ALL GROUPS
PAPTICLE LIST HEADER
DUST PARTICLE LIST HEADER
DUST PARTICLE LIST REDER
DATASET TYPE (4HDUST)
INTIAL GROUP RADIUS
MAXIMUM PARTICLE SIZE IN THIS GROUP
MINAUM PARTICLE SIZE IN THIS REGION
RISE RATE OF TOP OF REGION
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FRACTION OF PARTICLES IN THIS GROUP
BACKSCATTER CROSS-SECTION FOR THIS GROUP
INCREMENTAL ABSORPTION (DEACH)
ENVIRONMENT OUTPUT EVENT
EVENT TYPE (11)
THE OF THIS EVENT
CHEM OUTPUT TYPE (NOME, FIREBALL, VORTEX, CONTINUUM, ALL)
THE OF THIS EVENT
CHEM OUTPUT TYPE (NOME, FIREBALL, VORTEX, CONTINUUM, ALL)
NUMBER OF CALCULATION POINTS DESIRED IN VORTEX
DELTA PRINT THE
FROUGHENT OF GRID OUTPUT DATASET
DOINTER TO GRID OUTPUT DATASET
POINTER TO GRID OUTPUT DATASET
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DISCRIPTINATION TYPE (FFL, WEL)
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DISCRIPTINATION TYPE (FFL, WEL)
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DISCRIPTINATION OUTPUT DATASET
TOTAL DISCRIPTION TYPE
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THE OF THIS EVENT
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XRAY FRACTION
FRACTION MATERIAL FISSIONABLE WITH THERMAL NEUTRONS
GAMMA FRACTION
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R18 PMXJ
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CALCULATED WENN, DEP. DATA FOR NUTRON GEPOSITION

YIELD FRACTION IN DEPOSITED NUTRON GEREAL

FRACTION IN DEPOSITED NUTRON GEREAL

FRACTION IN DEPOSITED NUTRON GEREAL

FRACTION THEOTRON FOR BEVICE TYPE (CM2/GH)

FROMPT INCURON ENRY DEPOSITION INTEGRAL FOR DEVICE

TYPE AT MASS DEPTH PHILKS, CM2/GH)

FROMPT SASS GEPTH PHILKS, CM2/GH)

FROMPT TARSS GEPTH PHILKS, CM2/GH)

DEFENDENT EXPONENT FOR DEVICE TYPE AT MASS DEPTH PHILK)

DEFENDENT EXPONENT FOR DEVICE TYPE AT MASS DEPTH PHILK)

DEVICE DATA——WEADON DEPENDENT OUTPUT SPECTRA

DEVICE DATA——WEADON DEPENDENT OUTPUT SPECTRA

THE INITIALIZATION PROCESS. INDIA AS 4%.46, AND 4X

TYPE DATASSTS, AFTER INITIALIZATION WILL BE 3N.36, AND DSG

AND INPUT DATA

SAY RESPECTIVELY.

TYPE DATASSTS, AFTER INITIALIZATION ONLY.

BOTHIER TO MUTRON DATA ARRAYS

POINTER TO MUTRON ONLY.

MEADON SECTIONE (ENERGY IN EACH OF 18 ENERGY GROUPS.MEV)

DECLARCE GAMMA SPECTRAL MERROY IN EACH OF 18 ENERGY GROUPS.MEV)

DECLARCE GAMMA SPECTRAL MERROY IN EACH OF 18 ENERGY GROUPS.MEV)

MEADON SECTIONE (ENERGY IN EACH OF 18 ENERGY GROUPS.MEV)

MEADON SECTIONE (ENERGY IN EACH OF 18 ENERGY GROUPS.MEV)

MEUTRON WERN. DEPENDENT DATA FOR INITIALIZATION ONLY.

MEUTRON WENN. DEPENDENT DATA FOR INITIALIZATION

NEUTRON SECTIONE (ENERGY IN EACH OF 18 ENERGY GROUPS.MEV)

MEADON SHA MEEDED DURING ENTIRE CALCULATION

NEUTRON SECTIONE (ENERGY IN EACH OF 18 ENERGY GROUPS.MEV)

MEADON SHA MEEDED ONLY DURING INITIALIZATION

CAMMA DATA MEEDED ONLY DURING INITIALIZATION

METON SHA MENDOR ONLY DURING INITIALIZAT
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ENERGY DEPOSITION AT POINT DUE TO THIS FIREBALL
POINTER TO FIREBALL DATASET ASSOCIATED WITH ED
TARGET GROUP DATASET
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HANDATORY POINT LIST
PROMPT SOURCES LIST HEADER
HANDATORY POINT DATASET
POINT OF CLOSEST APPROACH TO FIREBALL
RAIGE FROM RADAR TO POINT
POINTER TO FIPEBALL DATASET
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 A TPAID 10-VECTOR OF ORBITAL ELEMENTS
PLATFORM TYPE 3 FOR CIRCULAR ORBITS
PLATFORM MODEL TYPE (= BHOTRCULAR)
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LOGATION OF ASCRUING NODE (AS CALCULATED AT TIME BELOW)
LOCATION IN ORBIT 'AROUND FROW ASCENDING NODE)
THE OF ORBIT
PHYSICS SCOURNEE EVENT DATASET
EVENT TYPE (9 FOR THIS EVENT)
THE OF PHYSICS UPDATE (LOW OR HIGH)
FIREBALL DATASET
HIGH OR HYSICS UPDATE (LOW OR HIGH)
FIREBALL NOEX NUMBER
TRANSPERS RADIUS
LATERAL RADIUS
LATERAL RADIUS
FIREBALL POSITION
FIREBALL VELOCITY
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FIREBALL ALTITUDE
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DENSITY AT A SECIFIED POINT

DENSITY SCALE HEIGHT

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STRIATION FRACTION

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HAN ALTITUDE OF REGION

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VOLUME OF VORTEX

VOLUME OF VORTEX

LATEPAL RADIUS OF VORTEX

VOLUME OF VORTEX

VORTEX BOUNDARY TEMPERATURE (DEG K)

HORIZONIAL DISTANCE TO REFERENCE POINT IN OVAL

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CHARACTER TSITC WERGING TIME

CHARACTER TSITC WERGING TIME

CHARACTER TSITC WERGING

DEBRIS LIST (CD)

POINTER TO BURST PRARMETERS DATASET (SP)

POINTER TO BURST PRARMETERS DATASET

FIREBALL STRIATION PARAMETERS DATASET

FIREBALL STRIATION PARAMETERS DATASET
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MFG1D
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STORAGE FOR DB(VEXP) IN CASE OFFSET CHANGES DB
TD1 TRANSITION TIMES RETWEEN RISE MODELS SEE 4**5*
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CD2. AT MODECN.78 EON...
V01 (1-71A) INIT, RISE IN LOW ALT. REGIME
STORAGE FOR AD (13)
HODLON.188 RPH OF EON.*
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RADIATION YIELD FOR BURST 2 FOR RADHRGE
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PART 1.2 - COMPLETE DATA LISTINGS

(16)	A AGET P	TARGET POINT DATASET	SET		2	NUMBER
	GOP	TYPE	MNEMONIC	o	ITEM IDENTIFICATION	
	-	1	NAME	10	NAME OF TARGET PUINT	
	. ~	a	Sod	16	LOCATION OF TARGET POINT	
	6	1	NEGOS	16	NUMBER OF IMPACTING BOOSTERS REQUESTED	
		α	THIT	16	DESTRED ARRIVAL TIME FOR THE FIRST R/V	
		α.	DELT	16	TIME BETWEEN SUCCESSIVE ARRIVALS	
	- 0	. 0	STET	Te	STAME FOR GAUSSIAN ERPORS IN ARRIVAL TIME	
	0 0	. 0		1	CTOCH AD DUDHABLE FROM (CEP) IN IMPACT.	
			MODE	2	TYPE OF TREJECTORY REQUESTED AS IN RORBY (SEE TRAID)	
	01:	• 0	VALUE OF	2 2		
	-		1000	2 5	CONTRACTO TO TABLET OF ARRAY	
	12	12 UNIVERD OF		2 2	POINTER IN TARGET COLTON AND A	
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(AC)A	TTACK T	ATTACK TYPE DATASET	1.3			NUMBER
	MORO	TYPE	MNEMONIC	2	ITEM IDENTIFICATION	
	-		KTYP	AD	FLAG PRESCRIBING -UNIFORM- OR -INTERVAL-TYPE OF ATTACK GENERATI	GENERATI
		r	KOAY	PE	FLAG PRESCRIBING -DAY- OR -NIGHT- FOR BLACKOUT CALCULATION	TIONS.
		1	IUAY	AO	DAY OF THE CALCULATION	
	7-4		IMON	AD	MONTH OF THE CALCULATION	
	ď		IYER	DA	YEAR OF THE CALCULATION	
		a	TOAY	AD	TIME OF DAY (HRS.MIN IS FORM) OF APPROXIMATE CENTER OF	
	,					
		٥	28	AD	ALTITION OF REFERENCE	
	- 0	z a	BI AT	4	ATTUDE OF REFERENCE	
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	10	1				
	TOTAL	TOTAL NUMBER OF	MCKUS		IN DATASET IS 10	
(08)	ORJECT DATASET	MATASET				NUMBER
	1000	4495	MNFMORIC	10	ITEM IDENTIFICATION	
	-		PIANE	0.0	IDENTIFYING MAHE FOR CHUECT	
	- 0	OSD	TYPE	08	POINTER TO OBJECT TYPE DATASET	
		dyd	POS	90	POINTER TO DAIASET CONTAINING POSITION DATA FOR THIS OBJECT.	BJECT.
	٠,	. 1	KEIS	000	FLAG ALIVE OR DEAD IF DEAD HOW DIED	
			200	0	BOTHER TO THE BEAR CROSS SECTION DATASET	
	٥,	100	1110	5 6	POINTED TO THE TUXBLING MODEL DATASET	
	C P	72.7	2113	000	LIST OF TRACK FILES INVOLVING THIS OBJECT	
	TOTAL	TOTAL NUMBER OF		Z	DATASET 1S 7	
,011	TO JECT	TASATAC TYPE DATASET	19			NUMBER
	1000	100	CINOMINA		TOPNITE CATIONS	
			NAME	10	NAME OF STANDARD OBJECT TYPE.	
	- 0	DSP	BETA	0	POINTER TO BETA-TABLE APPROPRIATE TO THIS OBJECT TYPE.	
		α	RALT	6	RE-ENTRY ALTITUDE (SWITCH FROM KEPLER TO INTEGRATION HERE)	EREI
	•	USP	PCS	0	POINTER TO RCS MODEL	
	ı.	USP	WIYPE		POINTER TO WEAPON TYPE (O IF OBJECT IS NOT A WARHEAD)	
	•	USP	TUMB	0	POINTER TO TUMBLING MODEL	
	TOTAL	TOTAL NUMBER OF			IN DATASET IS 6	
1871	TO A OF TANKE	ALLOCATIO	AU FOR	BO	ALL DEATTON FOR OR FETT RETAINER	NUMBER
	MOPD.	TYPE	MNEMONIC	10	ITEM IDENTIFICATION	
	-		KTYPE	9		
	~	1	NVALS	18	NUMBER OF POINTS IN THE TABLE	

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DOTATION OF THE STATE AND A SIMILAR TO -CONCON- INTERNALLY COMPUTED

BO A CONSTANT A MARKY SIMILAR TO -CONCON- INTERNALLY COMPUTED

LOW ALTITUDE FIREBALL AFRAY LIST A -LAIANB- MODEL

BO HIGH ALTITUDE BUHST LIST FOR THE HEAVE MODEL

BO FISE DATASSTS

BO FISE DATASSTS

BO HEAVE PARAWEIERS AS NEEDED

BO FLAG FOT DIAN ON HYDRO MOTION OUTSIDE LA FIREBALLS

BO FLAG FOT DIAN ON HYDRO MOTION (IRPUT YES OR NO)

BO FLAG FOT DIAN ON HYDRO ADDITION (IRPUT YES OR NO)

BO FREED MODEL MODEL

FIREBALL MODEL

BO COLLECTION OF INITIALIZATION CONSTANTS FOR HRC LOW ALTITUDE

FIREBALL MODEL

FIREBALL MODEL

BO COLLECTION OF INITIALIZATION CONSTANTS FOR HRC LOW ALTITUDE

FIREBALL MODEL

BO COLLECTION OF INITIALIZATION RELATIVE TO RADAR

BO FLAG TO OUTDUT FU POSITION RELATIVE TO RADAR
                                                                                                                                                                                                                                                                                                                                                                                                           --ITEM IDENTIFICATION---
OPRITAL ELEMENT DATASET A LA TRAID (Q.V.)
RE-ENTRY TIME
ENOD-ATMOSPHERIC STATE VECTOR
POINTER 10 THE APPLICABLE BETA TABLE FOR ENDO-ATMOSPHERIC WORK,
BETA MULTIPLIEM (FOR MODIFICATION OF THE NOMINAL BETA TABLE
DATASET IS 23
                                                                                                                                                                                                                                                                                                                                                                              PUMBER
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NUMBER
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--ITEM IDENTIFICATION——
HAME OF HADAH FOR IDENTIFICATION PURPOSES
PCINTER TO PLATFORM MCDEL DATASET
PCINTER TO THE WORSEL, DATASET
PCINTER TO RADAR TYPE DATA APPROPRIATE TO THIS RADAR
PCINTER TO THE ERROR COFFICIENTS GIVING THEM AS FCN. OF S/N
POINTER TO DISCRIMINATION IMPUT DATASET(01)
LIST OF TRACK FILES FOR OBJECTS BEING TRACKED BY THIS RADAR
DATASET IS 7
                                  WORD TYPE MNEHONIC --ITEM IDENTIFICATION--

3 I NPNT BI DO N-POINT INTERPOLATION FOR TRIS VALUE OF N.

4 R BALT BI ALTITUDE-EETA PAIR NUMBER 1. IN TABULATED FUNCTION

5 R ALTITUDE-REA PAIR NUMBER 2.

TOTAL NUMBER OF WORDS IN DATASET IS 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --ITEM IDENTIFICATION--
LIST OF EVENTS
LIST OF EVENTS
POINTER TO OUTPUT SUMMARY DATASET
OVERLAY CALLING STRUCTUME
INTERNAL OUTPUT INSTRUCTIONS
LIST OF ORJECTS
RADAM LIST HEADEM
POINTER TO PARAMETERS FOR THE TRACK FILTER
BURST LIST
              --- STGRAGE ALLOCATION FOR CRUECT RETA-TABLE
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NAME RD
PLTFM RD
BORE RD
TYPE RD
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	0	FVENT	TASET		NUMBER
		1 4 4 5 5 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6		VEMONIC "ITEM IDENTIFICATION KTYPE E4 (E4 FOH TYPE (E4 FOH TYPE) TIME E4 FOLITY TYPE (E4 FOH TYPE) TIME F6 FEVENT TYPE (E4 FOH THIS EVENT FOLITE F1 FOLITE F1 OF THE RADAM TOWOLVED IN THIS EVENT FOLITE F1 OF THE RADAM TOWOLVED IN THIS EVENT FOR THIS HADAM TOWOLVED IN THIS FADAM TOWOLVED IN THE FIRST TOWOLVED IN THIS FADAM TOWOLVED IN THE FIRST TOWOLVED IN THE FIRST TOWOLVED IN THIS FADAM TOWOLVED IN THE FIRST TOWOLVED IN THIS FADAM TOWOLVED IN THIS	S RACCAR
Ē	4	MORD TYPE NOW TYPE TYPE NOW TYPE NOW TYPE NOW TYPE NOW TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	IMPLEMENT MNEMONIC BMUL TF BMUL TF BMSIG BMSIG BMDG TF BETA TF	THE KALMAN FILTER ITEM IDENTIFICATION BETA MULTIPLIER AT START DECAY THE PARAMETERS FON FILTER (TAUI, TAUZ, H SUB TAU) BETA MULTIPLIER SIGMA AT START BETA MULTIPLIER DOT RUNNING UNCERTAINTY SIGMA POINTER TO TAHULATED HETA VS. ALTITUDE DATASET IS 7	NUMBER
à	(LP)LAUNCH POINT DATASET WORD TYPE HNEF 1 H NAF 2 B POINT 5 D SP RIT 6 I NEF 7 T T NUMBER OF WOI	UNCH POINT DATAS	ASET MNEMONIC NAME LP POS LP RITYPE LP NBOOS LP NLAUN LP	ITEM IDENTIFICATION NAME OF THE LAUNCH POINT LOCATION OF THE LAUNCH POINT POINTER TO THE BOOSTER TYPE ASSOCIATED WITH POINT. NUMBER OF AVAILABLE BOOSTERS AT THIS LAUNCH POINT. COUNTER OF NUMBER LAUNCHED SO FAM FROM THIS POINT.	NUMBER

3	(RT)RADAR TYPE DATASET	PE DATASE	1.			NOMBER
	ONON	TYPE	MNEMONIC	2	ITEM IDENTIFICATION	
	-	I	NAME		NAME OF RADAR TYPE	
	~	I	KSTAK		FLAG FOR BEAM STACKING (STACKED OR NONSTACKED)	
	•	0.50	NOISE	2	POINTER TO ENROR COEFF. FOR THIS RADAR TYPE	
		OSP	TRAN	ä	POINTER TO TRANSMIT BEAM SHAPE MODEL	
	5	DSP	PEC	ä	POINTER TO RECEIVE BEAM SHAPE MODEL	
		DSP	SMODE	ä	POINTER TO SEARCH MODE RADAR PARAMETERS DATASET	
		OSP	TMODE	4	POINTER TO THACK MOUE HADAR PARAMETERS DATASET	
			6050	1	DANA FOR THE MEGAHERT 7	
			2010	. 0	A PARTICULAR TO SOLUTION OF THE PART	
	•	*			STSIEM LEMPERALURE (UEC N)	
	0.7	œ	HLIH	~	HORIZON LIMIT FOR LOW VIEWING ANGLES	
	==	α			UFF BORESIGHT ANGULAR LIMIT	
	12	1		4	ANTENNA POLARIZATION INDEX (LINEAR OR NON-LINEAR)	
	TOTAL	TOTAL NUMBER OF			IN DATASET IS 12	
1	2	200	13			GAGMIN
1						1
	MORD	TYPE	MNEMONIC	2	ITEM IDENTIFICATION	
	-	α	RSO		RANGE ON ONE SQUARE METER	
	2	α	THRES	S	S/N THRESHOLD FOR DET . VERIF.	
	6	œ	DELAT		DELAY BETWEEN ACG . TPACK	
		I	KEACO	S	FLAG FOR FRAME RANDOMIZATION (HANDOM OR NONRANDOM)	
	2	α	ALTHI	S	UPPER LIMIT IN ALT	
	•	a	AL TLO	SM	COMPANIE IN ALT	
		•	RANHI		OUTER LIMIT IN RANGE	
	•	α	RANLO	S	INNER LIMIT IN PANGE	
		· a	ACSOA.		FLAME TIME OF SEASON SCAN TIMES	
		. 0	7112		TOTAL OF THE STATE	
	2:	2 0	100	, 2	POST TOTAL OF THE THICKNE	
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	12	œ	ELTOP	S	UPPER ELEVATION	
	13	α	HAFAZ	S	SIDE HALF-AZIMUTH	
	1.	œ	BANDN	S	NOISE BANDWIDTH FOR SEARCH WAVE FORM	
	15	α	BANDS	S	SIGNAL BAND WIDTH FOR SEARCH WAVE FORM	
	16	α	FPC	S	PULSE COMPRESSION RATIO FOR GIVEN WAVEFORM	
	11	α	SSL	S	CONSTANT RANGE SIDELOBE LEVEL RELATIVE UNITY AT PEAK OF AMBIGUI	AMBIGUI
					FUNCTION	
	18	-	KFLAG	S	18 I KFLAG SM SYSTEMS OPTION FLAG(#1/NO TRACK SIMULATION)	
	TOTAL	NUMBER OF	MORDS	Z	DATASET IS 18	
(6)	PLATFORM TYPE-1 (FIXED) DATASET	TYPE-1	(FIXED)	DAG	ASET	NUMBER
		TYPE	MNEMONIC	2	TIEM TOFNTIFICATION	
			KTYDE DI	6	MODEL TO CALLES OF THE COLUMN TO THE COLUMN	
	- ~	c 0x	Pos	7	PLATFORM POSITION	
	TOTAL	TOTAL NUMBER OF WORDS IN	WORDS	Z	DATASET IS 4	
(88)	BORESIGHT DATASET	T DATASE				NUMBER
		TYPE	MANEMON	2		
	1	I	IACO BR	88	FLAG-YES-IF ACO ALLOWED WITH THIS FACE	
	2	α	BVEC	8		
					ETC IN GROUPS OF FOUR FOR AS MANY AS RADAR HAS FA	CES
	TOTAL	NUMBER OF	WORDS	Z	DATASET IS 4	

	MORD TYPE		-	91 81	AME OF MODEL - (ONZOFF)	
	. N. m ◆ th ∞ 1	Ξαααα	BENTE BENTE	99999	BEAM SHAPE FLAG (CHCULAR OR ELLIPTICAL) BEAMIOTH IN ANOLAR UNITS HALF BEAMIOTH IN SINE SPACE FOR ELLIPTICAL BEAMS, THE HALF "- WIDTH NEAR-IN ANGLE SIDELOBE LEVEL (DB)	
	TOTAL	TOTAL NUMBER OF			DATASET IS 7	
(RE)	PADAR ERRORS DATASET	RRORS DATA	SET			NUMBER
	0808	w	FIXE RE	2 W W	ITEM IDENTIFICATION FIXED PORTION OF THE EAROR IN R.SINA.SINB AND DOPPLER S.V. DEPENDENT PORTION OF THE ABOVE ERHORS	
	10	αα	BIAS	a :	BIAS ERRORS IN THE SAME MEASURENENTS SAME COLLECTION OF DATA AS THE ABOVE. FOR SECOND VIEWING MODE. ETC. AS NEEDED.	NG MODE
14	TOTAL	FVENT DATASET	SET	Z	TOTAL NUMBER OF WORLD IN DALAST IS TO	NUMBER
	MORD	TYPE	MNEMONIC KTYPE LE	C H	ITEM IDENTIFICATION EVENT TYPE - ALWAYS 2 FOR THIS EVENT	
	~~	R DSP	TIME	m m	TIME OF OCCUMPENCE OF THIS EVENT POINTER TO THE LAUNCH POINT DATASET	
		dS0	TRGT	<u> </u>	POINTER TO THE TARGET FOINT DATASET A STANDARD TRAID ORBITAL ELEMENT ARRAY	
	15.	oc c	TIME	. L.	SCHEDULED IMPACT TIME	
	17 17 101AL	17 R TOTAL NUMBER OF		ZE	STOCHASTIC CROSS RANGE IMPACT ERHOR DATASET IS 17	
(1E)	IMPACT EVENT DATASET	EVENT DATA	1351			NUMBER 2
	MORD	TYPE	MNEMONIC	2	ITEM IDENTIFICATION	
	1 2 3 101AL	2 R 3 DSP TOTAL NUMBER OF	TIME IE	1222	EVENT TITE ALMATS STOR THES EVENT THE OF IMPACT POINTER TO GBJECT DATASET IS 3	
(TK)	(TK)TRACK FILTER DATASET FOR THE	ILTER DATA	ASET FO	4	EXTENDED KALMAN FILTER	NUMBER
	3 ~ NN 80	<u>+</u> α α α α α Μ	MNEMONIC TIME TK POSIT TK VELOC TK BMUL TK	ÖXXXXX	ITEM IDENTIFICATION TIME OF APPLICABILITY OF CURRENT STATE VECTOR PREDICTED POSITION PREDICTED VELOCITY PREDICTED NELOCITY CURPENT COVATANCE MATRIX	
	TOTAL	TOTAL NUMBER OF		Z	WORDS IN DATASET IS 57	
3	WORD 1		DATA SET (FOR C/C TYPE MNEMONIC DSP 08J FL LHV RAD FL	2027	ORGANIZATION)ITEM IDENTIFICATION POINTER TO THE OBJECT INVOLVED LIST OF RADAKS CONTRIBUTING MEASUHEMENTS TO THIS TRACK FILE	NUMBER
	TOTAL	3 DSP A R TOTAL NUMBER OF		L L Z	FILE FL POINTER TO THE FILTER DATA REING GENERATED START FL TIME OF TRACK INITIATION FOR THIS TRACK FILE WORDS IN DATASET IS	

	184)BETA MODEL NORD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TA MODEL 1 - CONMORD TYPE N		VALUE IN DA	ISTANT VALUE DATASET INEMONICITEM IDENTIFICATION"- KTYPE 84 MODEL TYPE (KTYPE#1) BETA 84 VALUE OF BETA WORDS IN DATASET IS 2	NUMBER
(83)	98		TYPE MNEHONIC I KTYPE 83 R KETA 83 R KETA 83 R KETA 83 R BMIN 83 R BMIN 83 R CONE 83	MIC (C 93 93 83 83 1N 0	ITEM IDENTIFICATION MODEL TYPE (KTYPE=3) OBJECT MASS OBJECT MASS OBJECT REFERENCE AREA STANDAND DEVIATION OF BETA MINIMUM BETA CONE ANGLE DATASET IS 6	N C M B E R
Ê	1	MBLING MODEL 1 . MORD TYPE M 1 . I . I . I . I . I . I . I . I . I .	• X	221 Z	ZONICITEM IDENTIFICATION KTYPE II MODEL TYPE (KTYPE±1 OR 2) IFRST TI FIRST CALL FLAG	NUMBER
Ę	1	G MODEL 3		SET ET E		N.O.K.
3	10 10 13 14 14				TA THETA NULL TA THETA NULL TA TUMBLE AXIS ONCULATION (UNIT VECTOR IN I.S.) TO WECTOR USED TO DEFINE TUMBLING PLANE VECTOR USED TO DEFINE TUMBLING PLANE IN DATASET IS 15	NOMBER
¥ 5	(5M)SMEATHING MODEL WORD 1 2 1 3 4 8 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	NG MODEL TYPE I I I R R R RUMBER O	MATASET MAREMONIC KTYPE SI NVAL SI NPTS AMPRC SI	N SYNC I	EATHING WOOEL DATASET WORD TYPE MILEMOULD. I KTYPE SH HODEL TYPE I NVAL SH N-VALUE OF N-POINT INTERPOLATION (2=LINEAR) I NVAL SH N-VALUE OF N-POINT IN TABLE A A AMPRC SH ALTITUDE-MULTIPLIER(ON RCS) PAIR 1 6 R ALTITUDE-MULTIPLIER(ON RCS) PAIR 2 AND	
(8)	, B	MODEL 1 - CONS MORD TYPE N 1 I 2 R 2 R TOTAL NUMBER OF		DATAS IC R1 IN D	TANT DATASET NEHONICITEM IDENTIFICATION KTYPE RI MODEL TYPE (ATYPE=1) WORDS RI VALUE WORDS IN DATASET IS 2	NUMBER
8	(R2)RCS MODEL MOPD 1 2 2 3 3		Z - RCS VS ASPECT TYPE MNEHONIC I MYAL RZ I NYAL RZ I NPTS RZ	PECT IC R2 R2 R2	DATASETTEM IDENTIFICATION MODEL TYPE (KTYPE=2) NUMBER OF DATA PAIRS IN TABLE NPHERPOLATION WILL BE PERFORMED (2=LINEAR)	NUMBER

(82)	(R2)RCS HODEL WORD 4 6	Z - RCS VS ASPECT DATASET TYPE MNEMONICITE H RCSRA R2 ASPEC R ASPEC NUMBER OF WORDS IN DATASET	S VS ASPEC MNEMONIC PCSRA R2 F WORDS IN	R2 IN DA	S MODEL 2 - MCS VS ASPECT DATASET WORD TYPE MNEMONICITEM IDENTIFICATION WASPECT ANGLE-RCS PAIR 1 A ROSRA R2 ASPECT ANGLE-RCS PAIR 2 AND SO ON TOTAL NUMBER OF WORDS IN DATASET IS 6	ER 29
(83)	, a	S HODEL 3 - TANK 10	EMONI TYPE TYPE TYPE RAD RAD	183333 N 0	CITEM IDENTIFICATION R3 HODEL TYPE (NTYPE=3) R3 TANK LENGTH R3 K=PPI/LAMDA IN DATASET IS 4	9
₩ •	9	A T T T T T T T T T T T T T T T T T T T	TYPE RACHONIC TYPE RACHONIC TYPE RACHONIC RYPE RACHONIC RY	O 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	MODEL 4 - RVS AND DECOYS MODEL TYPE WHEHOUICITEM IDENTIFICATION I KTYPE R4 MODEL TYPE (KTYPE=4) R REEN 74 SOIN RATE 4 R CONS R4 CONSTANT A 5 R ALPHA R4 CONSTANT A 6 R ALPHA R4 CONSTANT A 7 R THPICA R4 N-VALUE FOR N-POINT INTERP (2=LINEAR) 8 I NVAL R4 N-VALUE FOR N-POINT INTERP (2=LINEAR) 9 I NSEG R4 NUMBER OF SEGHENTS 10 R SIGT R4 PHI-GAMMA PAIR 3 11 R SIGT R4 PHI-GAMMA PAIR 3 12 R SIGT R5 SOIN DATASET IS 15 10 TOWARD SIN DATASET IS 15	ξε 3
£ .	(TM)TRACK MODE 10 2 3 3 5 6 9 10 11 12 12 12 13 13 14 16 17 18 18 18 18 18 18 18 18 18 18	E DATASET TYPE R R R R R R R R R R R R R R R R R R R	HNEMONIC STN TTN T REGATE T TLT T T TLT T T TLT T T TLT T T TLT T T TLT T	2 111111111	NUMBER 32 ACK MODE DATASET 1	ER 32
(RS)	(RS)RADAR SIGNAL PROCESSING DATASET WORD TYPE MNEMONIC - 1 R DAO AS R 2 R DRI RS R 3 R XLD RS D 4 R DROPH RS D	77 PROC.	MNEMONIC DAO AS DRI RE XLD RE	DATA RS RS RS	NUMBER 333ITEM IDENTIFICATION RANGE RESOLUTION WIDTH FOR UN-CHIRPED PULSE (#C*TAU/2) RANGE RESOLUTION WIDTH FOR UN-CHIRPED PULSE (2*CRO/F SUG PC) DISPERSIVE LOSS FACTOR DISPERSION-DISTORIED RANGE RESOLUTION (#DRO*LD)	ER 33

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HEALF TO HEASF TO TFOAF TO DSCOPF TO FBOUT TO FW1 TO FW2 TO FW3 TO FW3 TO
MEASF 10 PROPF 10 PSCHF 10 FROUT 10 FH1 10 FH2 10 FH3 10
7F07F 10 PROPF 10 DSCAF 10 FROUT 10 FURST 10 FURST 10 FURST 10
PROPF 10 DSCHF 10 FBOUT 10 FH1 10 FH2 10 FB3 10
PSCHF 10 FBOUT 10 BURST 10 FH1 10 F62 10
FBOUT 10 BURST 10 FH2 10 FB3 10
BURST 10 LIST OF BP FH1 10 LIST OF F1 F62 10 LIST OF F2 F83 10 LIST OF F3
F41 10 LIST OF F1 F2 F2 10 LIST OF F3 F2 F3 F3 F4 F3 F4
F62 10 LIST OF F2
FB3 IO LIST OF F3
73 30 30 30 30 30 30 30 30 30 30 30 30 30
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DOI TO LIST OF
LHV BEI IO LIST OF BETA TUBE OUTPUT DATASETS (BF)

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(10)	SUMMARY OUTPUT DATASET	OUTPUT DA	TASET				NUMBER 36
	GROM	TYFE	MNEMONIC HOF	01	BURST PARAMETERS FORMATS		
	17	DSP	F1F	0	FIREBALL SET-1 FORMATS		
	18	0.50	125	0	FIREHALL SET-2 FORMATS		
	19	950	2	2 .	FIREBALL SETT FORMATO		
	200	200	016	20	DEBRIS SET-1 FORMATS		
	100	000		0	RETA TURE OUTPUT FORMATS		
	23	a 000	COF	0	CHEMISTRY OUTPUT FORMATS		
	24	DSP	16RPH		POINTER TO THE FORMAT DATASET FOR GRAPHICAL OUTPUT AS PRINTERPLOT	PUT AS	PRINTERPLOT
	52	0.50			THE FORMAT DATASET FOR	PLOTS	
	TOTAL	TOTAL NUMBER OF	WORDS		IN DATASET IS 25		
(FP)	FIREHALL POSITON	POST10N	OUTPUT DATASET	DAT	1567		NUMBER 37
	MORD	TYPE	MINEMONIC	2	ITEM IDENTIFICATION		
	-	α	TIME	4	TIME OF OUTPUT		
	2		INDXF FP	d	FIREBALL INDEX		
	6	œ	RAEFB		FIREBALL POSITION IN PAE		
	9	α	ANG	4	ANGULAR EXTENT OF FIREHALL		
	1	α	RNG	٩	RANGE EXTENT OF FIREBALL		
	80	α	RNCEL	4	RANGE CELL OF RADAR		
	•	α	N	4	CLUTTER TO NOISE RATIO		
	10	α	ABS	4	INCPEMENTAL ABSORPTION		
	TOTAL	TOTAL NUMPER OF	F WORDS		IN DATASET IS 10		
(80)	SAST PARAMETERS	ARAMETERS					NUMBER 38
	000	1405	MAISMONTO		TIEM TOENTIETCATION		
	020	1	1111	2 6	OUTPUT TIME (SEC)		
	. ^	α α	FTGAD		TOTAL MEAPON ENERGY (ERGS)		
	y (*	c ox	EFGAD		FISSION ENERGY (EHGS)		
		α	E E	80	HEIGHT OF BURST (CM)		
	2	α	RHOB	80	DENSITY AT BURST POINT (GMZCC)		
		œ	H SE	80	SCALE HEIGHT AT BURST POINT (CM)		
		α.	TEMB	80	TEMPERATURE AT BURST POINT (DEG K)		
	α	~	RHO	80			
	•	α	TEGM	80	TIME TO REACH 2000 DEG TEMPERATURE (SEC)		
	10	α	TEON	80			
	TOTAL	TOTAL NUMBER OF	F WORDS	Z	DAT		
(61)	IF F. PARAMETERS	METERS					NUMBER 3
	do	TVPE	NOMENN	10	ITEM IDENTIFICATION		
		. ~	TIME	F	OUTPUT TIME (SEC)		
	. ~	-	INDXF	1	FIREBALL INDEX		
	. "	α	HTF		HORIZONTAL RADIUS (CM)		
	*	œ	RLF	FI			
	5	α	¥	Ľ	ALTITUDE OF FIRFBALL CENTER (CM)		
	9	α	HOOT	1	RISE RATE (CM/SEC)		
	1	œ	RDOT	ī	EXPANSION RATE (CM/SEC)		
	80	œ	RHOF	-	FIREBALL DENSITY AT BOTTOM OF FIREBALL (GM/CC)		
	•	α	4	-	FIREBALL TEMPERATURE (DEG A)		
	10	œ		5			
	TOTAL	TOTAL NUMBER OF	F WORDS IN	Z	DATASET IS 10		

NOMBER	NUMBER MRG.	NUMBER	NUMBER
	(CM)		a u
ITEM IDENTIFICATION OUTPUT THE (SEC) FIREBALL INDEED OF FIREBALL REGION (CM) MAXIMUM ALTITUDE OF FIREBALL REGION (CM) ILL FROM VEHTICAL OF FIREBALL AXIS ROTATION OF FIREBALL AXIS HURIZONTAL VORTEX RADIUS (CM) VERTICAL VORTEX RADIUS (CM) VORTEX VOLUME (CC) CHARACTERISTIC MERGE TIME (SEC)	NEMONIC "ITEM IDENTIFICATION INDXF F3 FIREBALL INE (SEC) INDXF F3 FIREBALL E.C. POSITION (CM) RFAL F3 FIREBALL E.C. POSITION (CM) RFAL F3 PARAMETER FON OALL OF CASSINI RTREF F3 VORTEX BOUNDARY TEMPERATURE (DEG K) TYORT F3 VORTEX BOUNDARY TEMPERATURE (DEG K) KINDF F3 FIREBALL KIND (I= SPHEROIO, 3= OVAL OF CASSINI, 4= RADMRG, S-MORUS IN DATASET IS 10	ITEM IDENTIFICATION OUTPUT TIME INDEX INDEX IDENTIFICATION FLAG IDENTIFICATION FLAG IOTAL DEBHIS ENERGY (EHGS) ALTITUDE OF DEBHIS CENTER (CM) HORIZONALAL DEBHIS HASHIS (CM) VERTICAL LEBRIS HASHIS (CM) DERRIS DISTRIBUTION PARAMETER HADIOS OF EQUIVALENT SPHERE DEBRIS YOU'ME (CC)	C OUTPUT TOENTIFICATION FF FIREBALL INDEX OF FIREBALL POSITION (X-DIRECTION) FF CELL INDEX OF FIREBALL POSITION (X-DIRECTION) FF FRACTION OF DISTANCE FROM CELL BOTTOM TO FB CENTER IN DATASET IS 10
Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Z	0 A	4444444 Z
MNEMONIC TIME F2 INCR F2 HMINE F2 HMAXF F2 HMAXF F2 F2 F2 F2 F3 F4 F4 F4 F4 F4 F4 F4 F4 F4 F4 F4 F4 F4		MNEMONIC TIME D INDXF D IOFLG D WDR D HDR D RTMS D RTMS D VOLD D VOLD D	MARKETERS ANEMOTERS ANEMOT
9 o	9 2	~ OF	SET-4 PA
MORD TYN 174 R 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	F3 PARAMETEPS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#OND TY WOND WOND TO TOTAL. NUMBER	(F4)FIREBALL NORD 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
<u> </u>	Ê	: 60	()

*	α	α	α α
* as a second	NC MB ER	با د ا ا ا ا ا ا ا ا ا	NUMBER 5
ž	ž	ž	ž
GREPHICAL OUTPUT AS PRINTER PLOTS NEWONICITEM IDENTIFICATION INUTY GP INDEX OF ARRAY WORD TO BE PLOTTED ALONG THE Y-AXIS INUTY GP	ITEM IDENTIFICATION DATASET TYPE (4HDUS) POINTER TO THE FIREBALL DATASET(FB) TOTAL MASS LOADING FACTOR MAXIMUM PARTICLE DIAMETER MINIMUM PARTICLE DIAMETER NUMBER OF PARTICLE IN ALL GROUPS PURPOPATIONALITY CONSTANT DUST PARTICLE LIST MEADER	CITEM IDENTIFICATION DP DATASE TYPE (4HUUST) INTIAL GROUP RADIUS DP INTIAL GROUP RADIUS DP MAXIMUM PARTICLE SIZE IN THIS GROUP MINAUM PRATICLE SIZE IN THIS GROUP DP MAX ALITIUDE OF THIS REGION DP RISE RATE OF TOP OF REGION DP RISE BATE OF FOTTOM OF REGION DP RISE BATE OF FOTTOM OF REGION DP RADIUS OF CYLINGER DP RADIUS OF CYLINGER DP RADIUS OF CLOUD DP RADIUS OF PARTICLES IN THIS GROUP DP RADIUS OF CANTON OF CENTON OF CLOUD DP RADIUS OF PARTICLES IN THIS GROUP DP GENTION OF CENTON OF CLOUD DP GENTAL ABSOMPTION (DB/CM) IN DATASET IS IT	ITEM IDENTIFICATION EVENT TYPE (11) TIME OF THIS EVENT CHEM OUTDUT TYPE (NONE-FIREBALL, VORTEX, CONTINUUM, ALL) NUMBER OF CALCULATION POINTS DESTRED IN VORTEX DELTA PRINT ITME END PAINT ITME FREQUENCY FOR DBPKM CALCULATION
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No o o o o o o o o o o o o o o o o o o	2444444444444	
ANGREPH INCYL INCYL INTYL INCY	ANGENE STATE OF STATE	A P T T T T T T T T T T T T T T T T T T	HEVENAL TEVENAL TIME TO THE TANK THE TANK THE TANK THE TANK THE TENE THE TE
FORWAT DATASET FOR GRAFHICAL NORD TYPE INGY1 GP 12 117172 GP 20 1 11072 GP 21 1 1072 GP 22 H 1173 GP 30 1 10053 GP 31 1 10053 GP 31 1 10053 GP 10154 GP 50154 GP 50155 GP 5	MORD TYPE 1 WORD TYPE 1 1 DSP 3 R R 5 R R 6 R R 7 R R 9 R R 10 LHV	# PT PE TICLE DATASET WORD TYPE WENTY TO THE PT PE	#08D TYPE HNEHON] 1 TYPE HNEHON] 2 R TYPE 3 H TYPE 4 I NPTS 5 R TIPE 6 R ETIPE 6 R FRED
99	ŝ	a 0	(60)

NUMBER	NUMBER	S S S S S S S S S S S S S S S S S S S	MOM	NOT BE B	NUMBER
ITEM IDENTIFICATION OVERLAY FLAG POINTER TO GRID OUTPUT DATASET POINTER TO FB POINTER TO FB	FIREMALL-FON SLICE THROUGH FBZ OTHER-OTHERWISE INFORMEX OF CLEL WANTED IF TYPE-OTHER FLAG INDICATING SLICE IS PARALLEL TO X AXIS (IAX*)) ON Y-AXIS (IAX*2) FLAG FOR KIND OF OUTPUT DESIRED (RHO,NE,STR), OR ALL) OATASET IS	A-ITEM IDENTIFICATION DISCRMINATION TYPE (FF. WBL.) MAXIMUM FREQUENCY (EFRG FCR WBL.) MINIMUM FREQUENCY (EFRG FCR WBL.) MINIMUM FREQUENCY (FOR FE ONLY) BODY LENGTH DISCRMINATION TIME INTERVAL ALTITUDE RELOW WHICH FF CANNOT BE PERFORMED TOTAL DISCRIMINATION TIME RANGE ABOVE WHICH WB CANNOT BE PERFORMED NOISSE BANDWIDTH FOR DISCRIMINATION (HERTZ)	ITEM IDENTIFICATION DISCRIMINATION TYPE TIME OF OUTPUT STANTED BEOY LENGTH STANDARD DEVIATION OF LENGTH MEASUREMENT TYPE (=DN*DOUBLE HUMP/ SHISINGLE HUMP) ONE-WAY ATTENUATION (DB)	ITEM IDENTIFICATION EVENT TYPE - FIVE FOR THIS EVENT TIME OF THIS EVENT DETOWIND POSITION POINTER TO BOMB TYPE DATASET DATASET IS 6	ITEM IDENTIFICATION NAME OF BOWB TYPE TOTAL YIELD OF THIS BOMB FISSION FRECTION HYDOR PRACTION NEUTRON FRACTION
00007	0000 0Z	TAN TO THE STATE OF THE STATE O	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 8 8 8 Z	98 98 98 98 98
MNEMONIC IFLAG EO GRUUT EO DSPFB EO	MNEMONIC TYPE G IND G IAX G KIND G	MUEMONICAL CATA MINEMONICAL CATA PROMY DO PROMY DO PROMY DO PROMY DO PROMY DO PROMY DO PROMINE DO P	MNEMONIC KTYPE DO TIME DO TIME DO SIGN SIGN DO SONN DO DO SONN DO DO SONN DO WORDS IN	MNE MNE E E E E E E E E E E E E E E E E	MNEMONIC NAME BI YIELD BI FF B
VIPONMENT CUTFUT MORD TYPE P 8 DSP 9 DSP 10 CSP TOTAL NUMBER OF	10 OUTPUT DATASE 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SCPIMINATION IN 1000 2	SCEIMINATION DU WORD TYPE 1 2 R 3 R 4 R 5 R 6 R 7 TOTAL NUMBER OF	451 EVENT DATASI 40RD TYPE 2 R R 3 B R 6 05P 6 05P	DATASET TYPE R R R R R R
ENVIRONMENT CUITBUL EVERYTHE WORDON I JELAG 9 DSP GROUT 10 DSP B 10 DSPF B TOTAL NUMBER OF WORDS	WORD OUTPUT DATASET WORD TYPE HN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DISCPIMINATION INPUT CATASET 1	10-	WORD TYPE WIN WORD TYPE WIN 1 1 K 1 2 R 7 3 P 7 0 S P 6 6 6 DSP B	(68)6048 TYPE WORD 2 2 2 3 3 4 4 4 5
(E0)	09)	10	600)		689

(88)	188) 8046 TYPE	0				NUMBER 56
	MORD A	TYPE	MNEMONIC	28	XRAY FRACTION	
		œ	FTHPM		FRACTION MATERIAL FISSIONABLE WITH THERMAL NEUTRONS	
	• •	α	9		GAMMA FPACTION	
	•	α	WMASS	98		
	10	α	FMAL	88		
	11	α	FMLI	88	MASS FRACTION OF LITHIUM	
	12	œ	FMFE	88	MASS FRACTION OF IRON	
	13	α	FMC	88	MASS FRACTION OF URANIUM	1
	14	OSP	SPCTD	88	POINTER TO THE DEVICE DEFENDENT DATA REGARDING SPECTRAL DIS-	DIS-
	15	OSP	SPCTI 88	88	POINTER TO THE DEVICE INDEPENDENT DATA FOR DEFINING THE SPECTRAL	SPECTRAL
	TOTAL	TOTAL NUMBER OF		Z	MORDS IN DATASET IS 15	
(1X)		DEP. INPL	IT DATA	FOR	MEPN. INDEP. INPUT DATA FOR X-RAY DEPOSITION CALCULATIONS	NUMBER 57
	1000	TYPE R	PHENONI	1, X	ITEM IDENTIFICATION NOHMALIZED AIR MASS PENETRATED ARRAY FOR WHICH ENERGY NOHMALIZED AIR WISH PASAMETRS WILL BE PRE-COMPUTED	
	TOTAL	NUMBER OF	WORDS	Z	TOTAL NUMBER OF WORDS IN DATASET IS 15	
(16)		DEP. INPL	IT DATA	FOR	WEPN. INDEP. INPUT DATA FOR GAMMA DEPOSITION CALCULATIONS	NUMBER 58
	4080	TYPE R	MNEMONIC PMG 1	10	ITEM IDENTIFICATION PENETRATED AIR MASS ABARA FOR WHICH ENERGY DEPOSITION PENETRATED AIR MASS ABARA FOR WHICH ENERGY DEPOSITION PENETRATED AIR MASS AREA FOR WHICH ENERGY DEPOSITION	
	TOTAL	NUMBER OF	WORDS	Z	TOTAL NUMBER OF WORDS IN DATASET IS 15	
CNI	34	DEP. INPL	JT DATA	FOR	EPN. INDEP. INPUT DATA FOR NEUTRON DEPOSITION CALCULATIONS	NUMBER 59
	TORD 1	4 A	PHN	o Z	AIR MASS PENETRATED ARRAY FOR WHICH ENERGY DEPOSITION	
	4	œ	a H	Z	PAPAMETERS WILL BE PRE-COMPUTED (GM/CM2) NONUNIFORM AIR CORRECTION FACTOR FOR ENL(K) NEUTRON	
	:		,			
	30	œ	CHO	Z	NOWUNIFORM AIR CORRECTION FACTOR FOR ENLIK) NEUTRON MEAN FREE PATHS AHOVE DEPOSITION POINT	
	;	a	ENL	Z	MEAN FREE PATH ANDAY FOR WHICH CORRECTION FACTORS WILL	
	TOTAL	NUMBER OF	WORDS	Z	TOTAL NUMBER OF WCRDS IN DATASET IS 57	
(2X)	WEPN. INDEP. INPUT DATA FOR	DEP. INPL	JT DATA	FOR	×	NUMBER 60
	WORD	TYPE	MNEMONIC PMXJ 2	o X	ROUP	(GM/CM2)
	19	oc o	ACX MA	××	NORMALIZED AIR MASS PENETRATED FOR UX(J.K) ARRAY	2002
	;		5	Y,	FIFTEEN VALUES GIVEN FOR EACH ENERGY GROUP, CORRESPONDING TO	NDING TO
	TOTAL	NUMBER OF	MONDS	Z	THE FIFTEEN VALUES OF NORMALIZED AIR MASS PHXJR ABOVE TOTAL NUMBER OF WORDS IN DATASET 15303	ų.
(50)		DEP. INP.	AT OATA	FOR	****EPN. INDEP. INPUT DATA FOR GAMMA CALCS. (INTITALIZATION)	NUMBER 61
		TYPE	MNEMONIC	202	ENERGY DEPOSITION COEFFICIENT AHRAY FROM ATH CODE (CM2/GM)	(6#)
					FIFTEEN VALUES GIVEN FOR EACH ENERGY GROUP, CORRESPONDING TO THE FIFTEEN VALUES OF AIR MASS PENETRATED GIVEN ABOVE.	E.
	TOTAL	NUMBER OF	MOPDS	Z	TOTAL NUMBER OF WORDS IN DATASET IS270	

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    **SHSTART** AT HESPECTIVELY.
**SHSTART** AT HESINNING** SET TO **4HDONE** AFTER INITIALIZATION SGAMMA INPUT DATA
                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER
                                                                                                                                                                          NUMBER
        MORD TYPE MNEMCNIC --ITEM IDENTIFICATION--

1 R EBARN 2N AVERAGE ENERGY FOR EACH OF 18 SPECTRAL ENERGY GROUPS (MEV)

19 R SIGN 2N EFFECTIVE NEUTRON CROSS SECTION AT EACH ENERGY (CAZZ/GH)

37 R UN 2N ENERGY CEPSSITION COFFICIENT MARAY FROM ATR CODE (CAZZ/GH)

37 R UN 2N ENERGY CEPSSITION COFFICIENT MARAY FROM ATR CODE (CAZZ/GH)

THE FIFTEEN VALUES GIVEN FOR EACH ENERGY GROUP, CORRESPONDING

THE FIFTEEN VALUES OF AIR MASS PENETRATED GIVEN ABOVE.
                                                                                                                                                                                                    --ITEM IDENTIFICATION--
YIELD FRACTION IN X-RAY'S
NORMALIZING AIR MASS PENETRATED FOR THIS WEAPON (GM/CM**2)
NARAY ENERGY DEPOSITION INTEGRAL FOR WEAPON TYPE
AT MASS DEPTH PMXBAR(I)**PHXR(K) (CH2/GM)
X-RAY ENERGY CONTAINMED FOR WEAPON TYPE WITHIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --ITEM IDENTIFICATION--

--ITEM IDENTIFICATION IN DEPOSITED NEUTHON ENERGY

MEAN TOTAL CHOSS SECTION FOR DEVICE TYPE (CM2/GM)

MEAN TOTAL CHOSS SECTION FOR DEVICE TYPE (CM2/GM)

PROMPT NEUTRON ENERGY DEPOSITION INTEGRAL FOR DEVICE

NEUTRON CAPTURE ENERGY DEPOSITION INTEGRAL FOR DEVICE

TYPE AT MASS DEPTH PMN(N) (CM2/GM)

NEUTRON ELASTIC SCATER ENERGY DEPOSITION TIME—

DEPENDENT EXPONENT FOR DEVICE TYPE AT MASS DEPTH PM(K)
                                                                                                                                                                                                                                                                                                                                                                                              #0RD TYPE MNEMONIC --ITEW JOENTIFICATION--

R FELGG 3G YIELD FRACTION IN PROMPT GAMMA RAY ENERGY

R FTHPM 3G FRACTION MATERIAL FISSIONABLE WITH THERMAL NEUTRONS

R UBRGP 3G PROMPT GAMMA RAY ENERGY DEPOSITION INTEGRAL (PRZ/GM)

R UBRGD 3G DELAYED GAMMA RAY ENERGY DEPOSITION INTEGRAL FOR

TOTAL NUMBER OF WORUS IN DATASET IS 32
                                                                                                                                                                                                                                                                                                                           MASS DEPTH PHYBAR (I) . PHYR (K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   XHAY INPUT DATA
POINTER TO NEUTRON DATA AFRAYS
POINTER TO GAMMA DATA AFRAYS
POINTER TO X-RAY DATA AFRAYS
DATASET IS 7
--- REPN. INDEP. INPUT DATA FOR NEUTRON CALCS. (INITIALIZATION)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEP. DATA FOR NEUTRON DEPOSITION
                                                                                                                                                                                                                                                                                                                                                                                 ---CALCULATED WEPN. DEP. DATA FOR GAMMA DEPOSITION
                                                                                                                                                                                   DEP. DATA FOR X-RAY DEPOSITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IDV) ---DEVICE DATA-- WEAPON DEPENDENT OUTPUT SPECTRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOTAL NUMBER OF WORDS IN DATASET IS 47
                                                                                                                                                                                                                                                                                                                                                 TOTAL NUMBER OF WORDS IN DATASET IS 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFLG DV
N1 DV
G1 DV
X1 DV
GAMMA DV
XRAY DV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SGMAN 3N
                                                                                                                                                                                                           FEDY 3X
PMX6R 3X
USARX 3X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             XPONE 3N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEDN 3N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UBRNC 3N
                                                                                                                                                                                                                                                                                                            FCNTX 3X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MNEMONIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MNEMONIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NEUT
GAMMA
KRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ---CALCULATED WEPN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    980
980
980
980
980
                                                                                                                                                                                       ---CALCULATED WEPN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER
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                                                                                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (38)
                                                                                                                                                                                              (3K)
            (NZ)
                                                                                                                                                                                                                                                                                                                                                                                              (36)
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2 1 N 1/2

6	(SO) SYSTEM OUTPUT DATASET	OUTPUT DA	TASET		Z	NUMBER 75
	WORD S	TYPE	MNEMONIC	200	ITEM IDENTIFICATION	
	u m	>	TRAJ	200	TRAJECTORY OUTPUT LIST (TR)	
		ZH.	MEAS	So	MEASUREMENT ERRORS OUTPUT LIST (ME)	
	2	\ I.1	TFOUT		TRACK FILTER OUTPUT LIST (TO)	
	91	LHV	PROP		PROPAGATION CUTPUT LIST (PP)	
		1	10000	000	UISCRIMINATION GOTPOT [131 (DD)	
	TOTAL	TOTAL NUMBER OF		Z	DATASET IS 8	
(TR)	TRAJECTORY	ORY OUTPUT	OUTPUT DATASET	14	Z	NUMBER 76
	MORD	TYPE	MNEMONIC	IC	ITEM IDENTIFICATION	
	1	I	KTYPE TR	T.	EVENT TYPE (SEARCH. VERIFY, TRACK INITIATION, TRACK)	
	. ~	α.	TIME	18	TIME OF OUTPUT	
	9	α	ALT	4	ALTITUDE	
	,	œ	RAE	4	PANGE, AZIMUTH, ELEVATION	
	-	œ	VEL	x (VELOCITY	
	ac o	α	STATA	a a	SIGNAL TO NOISE PLUS CLUTTER RATIO	
	TOTAL	TOTAL NUMBER OF		Z	WORDS IN DATASET IS 9	
(ME)	TRACK MEASUREMENT EPRORS DATASET	EASURENEN	T EPROR	S DAT		NUMBER 77
	WORD	TYPE	MNEMONIC	110	ITEM ICENTIFICATION	
	-	α	TIME	I E	TIME OF OUTPUT	
	2	α	RAEPR ME	ME	PREDICTED TARGET COORDINATES IN RAE	
	2	œ	RMEAS	E E	RMEASERBOKS IN RAE COORDINATES	0 .
	8	α		4E	HANDOM ERPORS IN RAE COORDINATES	
	1019	DIAL NUMBER OF	ACKOR A	2	MUNIS IN DATASET IS TO	
(10)	TRACK FILTER OUTPUT DATASET	ILTER OUT	PUT DAT	ASET		NUMBER 78
	MORD	TYPE	MANEMONIC	110	ITEM IDENTIFICATION	
	-	œ	TIME TO	2	TIME OF OUTPUT	
	2	a:	ERROR 10	0	SIX VECTOR OF POSITION AND VELOCITY ERRORS, IN LOCAL VELOC.	• 00-
	TOTAL	B ROTAL NUMBER OF		22	RAEPR TO APPARENT TARGET POSITION WORDS IN DATASET IS 10	
(PP)	PROPAGATION OUTPUT DATASET	TION OUTP	UT DATA	SET	2	NUMBER 79
	MORD	TYPE	MNEMONIC	110	ITEM IDENTIFICATION	
		α	TIME		TIME OF OUTPUT	
	2	α	DBSCN		ABSORPTION FROM ALL SOURCES	
	e .	αo	CHMAX	4 0	THRESHOLD ABSOKPTION	
	• 0	. 0	3000			
		c 00	CLUTR		CLUTTER POWER	
	7	α	REFAC		BIAS AND RANDOM HEFRACTION ERRORS IN RAE COORD.	
	13	œ	OISP	d 0	DISPERSIVE LOSS	
		. 1	FAIL		TOTAL	
	16	α	SIGBR		SCALING FACTOR ON SIGNA FOR SPREAD TARGET CLOUD	
	17	α			ANGLE BETWEEN MAJOR AXIS OF ELLIPSE AND U-COORD IN RUY	
	TOTAL	TOTAL NUMBER OF	MORDS		IN DATASET IS 17	

82

8

A LANGE

1007	STURING BUTESTORY INVESTIGATION	POOCESTING	TUTPUT	S		NUMBER 83	
	040	TYPE	MNEMONIC	200	ITEM DENTIFICATION		
	5	nc o	_	200	STORY - TO - (NOTSE SOLUTIES)		
	æ	2 0	00000	4	ADDACENT TARGET POSITION		
				d	TARGET DETECTION PARAMETER		
	TOTAL	TOTAL NUMBER OF	MORDS		DATASET IS 12		
						NUMBER 84	
(RP)	:			,			
	040	L	MNEMONIC	٥	TATE OF TATE O		
	-	xc	DIAT NO		THOSEMENTAL RANGE FOR RAY TRACE		
	• 1	r 0	200	0	TEMPURE AT POINT		
	٠,	x a	0010	d	DENSITY AT POINT		
	01	. 0	200	a	FIRSTRON DENSITY AT POINT		
	- 0	x a	DELAZ	2	ELECTRON DENSITY GRADIENT IN AZIMUTH		
	c c	c	0616	da	ELECTRON DENSITY GRADIENT IN ELEVATION		
		· 02	VNFUT	a de	NEUTRAL COLLISION FREQUENCY		
	2:	α.	VION	a da	ION COLLISION FREQUENCY		
		α.	0 8	c.	DELTA CHANGE IN RANGE. AZIMITH AND ELEVATION		
	12	0	DINC	8P	INCREMENTAL RANGE IN FIELD DIRECTION		
	14	α	SIZE	RP	CHARACTERISTIC STRIATION SIZE		
	17	α	RHO	4	STRIATION DENSITY (CM-2)		
	8	α	ENO	ď	PEAK ELECTRON DENSITY		
	51	I	DIST	ab	TYPE OF DISTRIBUTION		
	20	α	SCAN	da	SCAN ANGLE LIMIT FOR SIRIALIONS		
	TOTAL	TOTAL NUMBER OF	MORDS		IN DATASET IS 20		
(62)	S TYPE 2		- TRAIL	0 088	TRAID ORBITAL ELEMENTS	NUMBER 85	
			MNEMONIC	01	ITEM IDENTIFICATION		
	-		KIYPE P2	50	PLATFORM MODEL TYPE (= THORBITAL)		
	. ~	α	OFFEL	24	A THAID 10-VECTOR OF ORBITAL ELEMENTS		
	TOTAL	L NUMBER OF	NORDS.	N.	TOTAL NUMBER OF WORDS IN DATASET IS 11		
		2 2071	917 90	84 1117	CABITS	NUMBER 86	
(63)		E	101		,		
	0.0	•	MAERON D	00	DIATERDE MODEL TYPE (= BHCIRCULAR)		
	- 0		A 180 03	2 0	TACK TNATION OF ORBITAL PLANE		
	~ ~	ra	AL07.6	6	LONGITUDE OF ASCENDING NODE (AS CALCULATED AT TIME BELOW)	7.00	
	0 4	α	0000	64	LOCATION IN URHIT (AROUND FROM ASCENDING NODE)		
	. 50	α	TIME	P3	TIME OF VALIDITY OF GIVEN DAIA		
	4	A CONTRACTOR		62	PERI P3 PERIOD OF GREIT		
	4101	ר אסשפרא סב				NIMBED 87	
(63)	(E9)PHYSICS	SEQUENC	EVENT	DATAS	13	NOUDER OF	
	MOHD.	TYPE	MINEMONIC	21	ITEM IDENTIFICATION-		
	1	-	KTYPE E9	63	EVENT TYPE (9 FOR THIS EVENT)		
	2	α	TIME	63	TIME OF THIS EVENT		
	e	α	IND	63	TIME OF PHYSICS UPDATE		
	4	I		5 F	KFLAG E9 TYPE OF THYSICS OF OR ILON ON THEM		
	TOTA	TOTAL NUMBER OF			A LAGE 13		90
103)		TAPERALL DATASET				NUMBER 88	00
		TYPE	MNEMONIC	21	ITEM IDENTIFICATION		
			TYPE FB	8	HIGH OR LOW		

(FB) ---FIREBALL DATASET

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NUMBER 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER 90
                                                    2 1 NUMBER AND THE FLAG

3 1 NUMBER AND THE FLAG

4 R THE FE THERALL WILL WINDER HANDER

5 R FLATERAL RADIUS

6 R FEBROS F RADIUS

6 R FEBROS F RADIUS

12 R FLATERAL AND TOUR

13 R FLATERAL AND TOUR

14 R FLATERAL AND TOUR

15 R FLATERAL AND TOUR

16 R FROM THE FLATERAL AND TOUR

17 R FLATION FRACTION

18 R FLATION FLATION FRACTION

19 R HAND F B DENSITY AT A SPECIFIED POINT

19 R HAND F B DENSITY AT A SPECIFIED POINT

10 R HAND F B DENSITY AND FRACTION

10 R HAND F B DENSITY AND FRACTION

11 R FLATION FRACTION FRACTION

12 R HAND F B TATTON FRACTION

13 R FLATION FRACTION OF REGION

14 R FLATION FRACTION OF REGION

15 R HAND F B TATTON FRACTION

16 R HAND F B TATTON FRACTION

17 R FLATION FRACTION OF REGION

18 R FLATION FRACTION OF REGION

19 R FLATION FRACTION OF REGION

20 R HAND F B TATTON FRACTION

21 R HAND F B TATTON FRACTION

22 R HAND F B TATTON FRACTION

23 R FLATION FRACTION OF CASSINI DEFINITION

24 R FLATION FRACTION OF THE FRACTION

25 R F FLATION FRACTION OF THE FRACTION

26 R FLATER F B CHARACTER FAILSTON

27 R FLATER F B CHARACTER F TO SECON THE FRACTION

28 R FREE F B DOINTER TO BUSE TO SECON THE FOUNT IN OVAL (CM)

39 DSP SPREE B POINTER TO BUSE TO BUSE TO BUSE TO SECON THE FOUNTER TO BUSE TO BUSE TO BUSE TO SECON THE FOUNTER TO BUSE TO SECON TO SECON THE FOUNTER TO BUSE TO SECON THE FOUNTER TO BUSE TO SECON T
FIREMALL TYPE FLAG
FIREMALL TYPE FLAG
FIREMALL INDEX MUMBER
TRANSVERSE RADIUS
LATERAL RADIUS
FIREMALL POSITION
FIREMALL VELOCITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MODD TYPE MMEMONIC --ITEM IDENTIFICATION--

1 R SIZE SR AVERAGE STRIATION SIZE
2 R R O SR STRIATION DENSITY
3 R SCAN SR SCAN ANGLE LIMIT

TOTAL NUMBER OF WORDS IN DATASET IS 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A-ITEM IDENTIFICATION--
DEBRIS TYPE
FLAG DESIGNATING SHAPE
YIELD (ERGS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SR) ---FIREBALL STRIATION PAKAMETERS DATASET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MNEMONIC
DLABL DD
IDFLG DD
WDR CD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IHI
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EH 92		83	33	0																z			THE LOCATIONS		7.	200) :	40	A	AF	A S	H	B AH	AI	4.7	AK	AL	A.M.	13 AM	AN	84	88	38	09	36	34	98	T T		
NUMBER		1																		SIO	BEEN		DCA			v	9	,	S			œ			01			13				9								
	TINITE IDENTIFICATION TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TH	AMBIENT RHO AT HURST PT. RHOB BP (RHOB)		AMBIENT TEMP AT BURST PT.	SHICKS STACK STACK	Contract transpar	THE TO HEACH 2000 DEG TIMEHALL TEMPERATORE	IREBALL TEMPERATUR	FIREBALL DENSITY AT TEGM	FIREBALL DENSITY AT TEUN	BEREBENCE TEMPORATINE OF STEED GOADTENT DEGLOS	MAGNETAL FIELD AFFICE AT BURNE BOTH	THE STATE OF THE BOX PLANE	CELL INDEX IN X-DIRECTION	CELL INDEX IN Y-DIRECTION	CELL INDEX IN Z-DIRECTION	FRACTION OF DISTANCE BETWEEN FB CENTER AND CELL BOTTOM	RATIO OF TEMPERATURE OF CELL TO INITIAL FB TEMPERATURE	FIRST WORD IS THEIR -AA- WHICH IS TO LAND -BUF- WILL	EVENTUALLY BE REPLACED BY -10-1 WHICH IS THE PRE-EXPA	K HAVE		NORTH AND L'ELEN IN THE RICHT HAND MAKELL AND THE			12 (1=35) 12 (1=50) CEF MON ON 144 MOLY CASE (2) 22	THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	13 (1-32) ENO OF CONSTRAIN VELOCITY MADIAL EXPANSION PHASE	TA (1-57,1-54) END OF JRU EXPANSION PHASE	IS # MODICON. 272		TO -DWELL TIME - END OF UNIFORM ACCEL FROM 0 TO VO RISE	PATE (1-774.8)	TAU CHARACTERISTIC RISE TIME (1-75A.B)	TAC (1-7A) CENTER APOSFE TIME	TT (PHOB 174.) MODLUM. 197 TORUS FORMATION TIME	TMAX (TIME OF THERMAL MAXIMIM) (1-163)	TAFZ(1-137ABC) ALTFREEZE- TIME BEFORE WHICH TO	RISE OF HETA		INITIAL BLAST RADIUS (=RHO UNLESS MERGES OCCUR)	HORIZONTAL MAG. CTNMENT RADIUS RHM (1-10)	RU(1-16) (1-17) INITIAL DOWNWARD RADIUS	ROM (1-22) DOWNWARD MAG. STOPPING RADIUS	RU(1-26) INITIAL UPWARD RADIUS	RUM(1-27) UPWARD MAG. STOPPING RADIUS	BLI (1-29) INITIAL VERT. RADIUS	HTI (1-30) INIT HORIZ. RADIUS SEE MRS4ON Pl.32		TOTAL
_	21	9	80	98	a	0		90	86	95	0	0	0	200	90	96	99	ВР							2 6	0 0	200	2 6	85	1 1	2 4	20		90	9	2	de	8		95	a b	86	96	86	86	86	96	99	-	2
DATASET	MILEMONIC	RHOR	HSH	TEMB	2	1		TEON	DOOLG	RHOOMA	DEFT	100	2000	10	2	S Y	FRCO	XARG							2 -	12	1 0	1	4	2	TEO	2		TAU.	TAC	11	TMAX	TAFZ	-	THEZ	2	RHH	20	KON	S.	X Da	RL1	871	-	013
AMETERS	TYPE	æ	α	α	α	. 0	* 1	œ	α	α	a	0	× ·				α	α				U		(1 :	ro	. 0	. (α	a c	α (x	,	α (x	α	α	α)	α	œ	α	œ	α	α	α	or	α		α
BURST PARAMETERS	CHOM	16	1.7	18			0.2	2	22	23	36	35	C	58	62	30	31	32			;	66		,,	• 4	25	2.5		38		9.		•	24	* 3	**	4.5	94		47	64	61	20	51	55	53	54	55		5.5

PART 1.4 - DATASET LIST BY MNEMONIC

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NUMBER 95
                                           69 THETA
70 UBP
71 TO1
72 TO2
73 FACT
75 ABD
75 BA2
77 RPH
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER 93
                   NUMBER 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --ITEM IDENTIFICATION--
TIME OF START OF FIREBALL MOTION
RADIUS AT START OF FIREBALL MOTION
POSTITION OF FIREBALL AT START OF MOTION
TIME AT END OF FIREBALL MOTION
RADIUS AT END OF FIREBALL MOTION
PUSITION OF FIREBALL AT END OF MOTION
POSTITION OF FIREBALL AND OF MOTION DATASET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WORD TYPE MNEWDUIC --ITEM IDENTIFICATION--

DSP DSPFH FI POINTEM TO FIREBALL (FB)

RILTO FI INITIAL TILT

RILDO FI TYPE OF INTERACTION INTERACTIONS

RILDOT FI UPDATE THE BASED SHOCK TO REACH FB

RIPEFEL FI THE FOW RELECTED SHOCK TO REACH FB

ROFFME FI MAGNITUDE OF OFFSET DUE TO SHOCKS

ROFFME FI VELOCITY DUE TO SHOCKS

ROFFME FI VELOCITY DUE TO SHOCKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        --ITEM TDENTIFICATION--
HIGH OR LOW
FIREBALL TYPE FLAG
FIREBALL INDEX NOMBER
TRANSVERSE HADIUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LATERAL HADIUS
FIREBALL POSITION
FIREBALL VELOCITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USE IN HYDRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MACHONIC
TYPE HZ
KINDXF HZ
TYPE HZ
TY
TYPE HZ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --- FIREBALL INTERACTION DATASET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MNEMONIC
11 EF
11 EF
12 EF
72 EF
72 EF
72 EF
73 MOVE EF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (EF) --- EDITED FIREBALL DATASET FOR
                                   MNEMONIC
THETA BP
DAP AP
                                                                                                                                                                                                                                                                                                                                                                                                                           TOTAL NUMBER OF WORDS IN
                                                                                                           4 4 4
                                                                                                                                                                                                                                                                                                                                         VSHCK
OFMAG
LOF
                --- BURST PARAMETERS DATASET
                                                                                                                                                        FACT
VBU
ADP
BAZ
RADY1
RADY1
                                                                                                                                                                                                                                                                                                               TSHCK
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8
8
8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---FIREBALL
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PART 1.5 - VARIABLE NAME LIST

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Section 2

PROGRAM STRUCTURE NOTEBOOK

	<u>ITEM</u>	PAGE
2.1	SUBROUTINE LENGTH/EXTERNALS	2-1
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PART 2.1 - SUBROUTINE LENGTH/EXTERNALS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXTERNALS
SQRTIIIII ALOGIIIIII FZETIIIIII ENDIIIIII
SQRTIIIIII 1985 BLANKCZIII 804 BLANKC3111 6580 BLANKC4111 5200 WEDEPUIIII
BLANKCIIII 1985 BLANKCZIII 804 BLANKC3111 CHANFOTIII CHANFOTIII
                                                                                                                                                                                                                                                                                                           5 ATMOSTILLI 15 WRATELLILL 159 CONCONLILL
               12 CONCON2:11
                  17 CONCONIIII
                                                                                                                                                                                                                                                                                                                                                                                                                       EXPITITION ALYTZIIII RICATTIIII SORTIIIIII ENDIIIIIII COMMON RLOCKS
SPECEFIIII 36 CHEMANIIII 25
ENTRY POINTS
CHMIONIIII
                          S CHEMB11111
                                                                                  CHEMQ:: 09/13/75

PROGRAW LENGTH
CHEMQ:::: 231

EXTERNALS
SGATI:::: RATE:::::: END::::::
SGATI:::: 12
SPECRIE:: 12
SPECRIE:: 12
                                                                                                                                                                                                                                                                                                                   ENTRY POINTS
ENTRY POINTS CHEMHRIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHOLSKIIII 198
EXTERNALS
SQRTITITITI ENDITITITI
ENTRY POINTS
CHOLSKIIII
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PROGRAM LENGTH
CHHION:::: 850
EXTERNALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHXDEP: 09/13/75
PROGRAM LENGTH
CHXDEP:::: 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHOLSKI 09/13/75
PROGRAM LENGTH
                                                                                                                                                                                                                          CHMEDT: 10/01/75 PROGRAM LENGTH
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                                                                                                                                                                                                      CHEMOIIIII
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CLUTINC 09/17/75
PROGRAM LENGTH
CLUTINCIII 312
EXTENALS
EXTENALS
INDUPPLIII UNITVIIIII VECLINIIII REFCOZIIII NLOKUSIIII SURVECIIII SEPAIIIIII DOTIIIIII REFCOIIIII
REFCOIIII RITEFIIII CROSIIIIII XMAGIIIII SINIIIIII RBAREXIIII ENDIIIIIII CLINTII 09/13/75
PROGRAM LENGTM
CLINTIII: 352
CLINTIII: 352
EXTERIALS
EXTERNALS
EXTERN 15 CHASPCI 09/13/75
PROGRAM LENGTH
CHASPCIIII
FRANCIIII
EXPIRIMALS
EXPIRIMALS
EXPIRIMALS
COMON BLOCKS
BLANCIIII 1985 BLANKCZIII 604 BLANKCZIII 6580 BLANKCAIII 5200 WEDEPOIIIII ACCORRIGE SQRTISSIS ROOTTISS SINSISSIS RBAREXISS ENDISSISSION COMMON BLOCKS GEOMETRY POINTS TO CONCONZESS ENTRY POINTS CIPHERSSISS ENTRY POINTS 130 BASICDS:11 ENTRY POINTS
CLINT:::: 9 CHXLOSI 09/13/75
PHOGRAM LENGTH 90
EXPENDENT 90
EXPENDENT 90
COMMON HIGGES
COMMON HI CIPHER: 09/13/75
PROGRAM LENGTH
CIPHER:111 963 COMMON ALOCKS CLUTINCIII CHXSPCIIII 24 7 0 39 39

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ONDUGI 09/13/75
PROGRAM LENGTH
CONDUCTION 247
EXTERNALS
INDUCTION TO STATE STATE STATE STATE STATE ASIANTITIE RADZETHING ALOGINING NLOKDSING ENDINING TO COMMON FLOCKS 15 CONSPC! 09/13/75
PROGRAM LENGTH
CONSPC!!!! 76
EXTENALS
SORT!!!!! RRAREX!!!! END!!!!!!!
COMMON PLOCKS
BLANKC!!!! 1985 BLANKC2!!! 804 BLANKC3!!! 6580 BLANKC4!!! 5200 WEDEPO!!!!
ENTRY POINTS
CONSPC!!!! 12 CONCON2111 S CONCONIII 3 COLLFII 09/13/75
PPOGRAM LENGTH
COLLFIIII 52
EXTENALS
ALGGIIIII SORTIIIII ENDIIIIIII
ENTRY POINTS
COLLFIIII ENTRY POINTS COMPZ:1 09/13/75
PROGRAM LENGTH
COUPZ:1:1: 69
EXTERNALS
AGGER:1:1 END:1:1:1
COMPZ:1:1:1 CONSET:
PROCRAM LENGTH
CONSET:::::::309
EXTERNALS
ENT:::::::
CONNON RLOCKS
CONHIT::::::
ENTAY POINTS
CONSET:::: CONJUG: 111 CONJUGI 14 * £.4 45 9 :

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DSPWRDI:::
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PROSPAM LENGTH
DELABSITIS 32-6
EXTERMALS
INTARDITIS XMITISTIS XMAGISTIS COSSISSISSIS SINSTITUTE NEXTISSISS MIXERITIS HTOSISSISS VECLINITIS ELDENSISS
COLFISSIS ABSINCT
CONFISSIS ABSINCT
COMMON PLOCKS
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WEGEPOILL 15 ENGOUTILII 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                         EXTERNALS
COMPONITION CONSPICITION BLINEINTI LENSPONITION CHXSPCIIII ENDININIM
COMPONITION CONSPICITION BLINEINTI LENSPONITION COMPONITION COMPONITION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12 CONCONZIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XMAGIIIIII NEXTIIIIII INDWRDIIII DEPINDIIII
PMASSFIIII WOGDIIIIII RITEZIIIII QINITIIII
EZIIIIIIII CONJUGIIII COSIIIIIII PROJIIIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CONCONIII
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                                                                                                                           STOP: III III XMITIIIIII STREPIIIII ENDIIIIIII COMMON ALOCKS
CONCONIIII 12 CONCONZIII 2
CORTRANIIII 12 CONCONZIII 3
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DELABSIII
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EXTENALS
SORTITION ENDITITION
COMMON BLOCKS
CNSTNITTI 11 LINKIE
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PROGRAM LENGTH
DEDEPIIII 1132
EXTERNALS
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49 CORTRAN 09713/75
PROGRAM LENGTH
CORTRAN:: 64
EXTERNALS
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PROGRAM LENGTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMMON BLOCKS
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PROGRAM LENGTH
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PROGRAM LENGTH
DISCALMENT
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DEPOSITION 241

DEPOSITION 241

EXTRANALS

SATIONAL ALOGISTIC FZETIMINI RADZETHINI CONJUGINI ETHERADINI ENDININI
COMMON ALOCKS

ENANCTINI 1985 BLANKCZINI 804 BLANKCZNI 6580 BLANKCANI 5200 CNSTNININI
ENANCTINI DINS
DEPOSITIONAL
                                                                                                                  PROGRAM LENGTH
DEPINOLISI 77
EXTERNALS
INDWPLISS OSPWROLISI WOXISSISS WONISSISS WOSSISSISS ENDISSISS
COMMON RECKS
                                                                                                                                                                                                                                                                                                                                                                                    S NIBNXGIIII
                                                                                                                                                                                                                                                                                                                                                        ENTRY POINTS
DEPINDING
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PROGRAM LENGTH
DISPERSII 68
EXTERNALS
SQRTIIIII ENDIIIIII
ENTRY POINTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENTRY POINTS
DELTIM::::
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                                                                                                                            DEPINDI
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DROPEZINI 435

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OUSCATIII

EXTERALS

INDMALIII RITEZIIII MIXERIIII NEXTIIIII ALOGIIIII NLOKDSIIII ENDIIIIIII

INDMALIII RITEZIIII MIXERIIII NEXTIIIII ALOGIIIIII NLOKDSIIII ENDIIIIIII

CONCONIII 12 CONCONZIII 2 III 130 BASICDSIII 5

ENTRY POINTS 6 19 9 DISIONIIII 9 DISIONIIII EXPISSION SORTION ALOGINION REAREKTOR ENGINIER COMMON ALOCKS
ATMOSTIMM ATMOSTMENT IS WRATEIMM 159 FDSRATIMM 9 DISIO SQ DRATE!! 05/13/75
PROGRAM LENGTH
DRATE!!!! 656
EXTERNALS
RATE!!!!! SQRT!!!!!! RBAREX!!!! EXP!!!!!!! END!!!!!!!
COMON BLOCKS
NATE!!!!! 159
ENTRY POINTS PROGRAM LENGTH
UTKGOIIII 1211
EXTERNALS
SORTIIIII ENDIIIIIII
EXTERNALS
AMON PLOCKS
ATMOSTIIII 15 WRATEIIIII 159 FOSRATIIII
ENTRY POINTS DTNEP11 09/13/75 PROGRAM LENGTH DTNEP1111 1021 EXTERNALS DUSTIN: 09/13/75 PROGRAM LENGTH PROGRAM LENGTH 09/13/75 DINEPILLI DUSCATILLE DRATEILLI DINEPII DROPRZI 24 62 63 09 5

PROGRAM LENGTH

PROGRAM LENGTH

EXTERNALS

EXTERNALS

PLOTSIIII PTORCHIIII ALFABETIII MCHARCTIII NEXTIIIIII PLOTAXIIII PLOTIIIIII ENDIIIIII

COMMON ALOCKS

ENTRY POINTS

OVNPLOTIII DUSTUPI 09/23/75
PROGRAM LENGTM
DUSTUPII 178
EXTERNALS
INDWRLIII INMRDIIII MIXERIIIII NEXTIIIIII XMAGIIIIII VECLINIIII NLOKDSIIII ENDIIIIII
EXTERNALS
INDWRLIII INDRADIIII MIXERIIIII NEXTIIIIII XMAGIIIIII VECLINIIII NLOKDSIIII ENDIIIIIII
ENDIIIII ZOZ BASICOSIII 5 CONCONIIII 12 CONCONZIII 7
ENTRY POINTS
DUSTUPIIII DUSTINI: 11 164
EXTERNALS
INDWALLI: CREATEIII: RBAREXIIII DSPWRDIII! ALOGII: III PGHOUPIIII NLOKDSIIII ENDI: 1111
COMMON BLOCKS
ENTRY POINTS
ENTRY POINTS EXTERNALS
SQRTITILI ACOSIIIII ATANZIIIII COSIIIIIII SINIIIIIII ENDIIIIIII
COMMON ALCOKS
CONCONIIII 12 CONCONZIII 2
ETANAV POINTS
ETANAOIIII AADZETHIII ECADIIIII ECWRIIIII EDGE::: 09/13/75
PROGRAM LENGTH
EDGE:::: 80
EXTENALS
END:::::::
ENTRY POINTS
EDGE:::::: ETH2840 09/13/75 PROGP4M LENGTH 84 11:049C+13 DUSTINIII DYNPLOT 69 67 68 99 65

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076
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EXTENTIFIE INDMRDITE UNITVITIE VECLINITIE QINITIELE ENDITIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  222 HGRID:::::: 3352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EXPINITION 215
EXTENDES
ALGGINIST EXPINITION ACGGERISTIC COSTITUTE SINITION ENDITORIST ENTRY POINTS
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                                                                                                                                                                            159
                                                                                                                                                                                                                                                                                                  PROGRAM LENGTH
EVPROCIII 184
EVPROCIIII 184
EXTERNALS
GANTIIII INDMPLIIII LOCKDSIIII DSLNTHIIII
GANTALIII REMOVEIIII SECONDIIII PSECONDIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLANKC2111
REZONNI111
                                                                                                                                                                                15 WRATEIIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HEIGHTIII 105 CELLESIIII 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ENTRY POINTS BASICOSIII
                                                                                                                                                                                          6 ATMOST::::
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PROGRAM LENGTH
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75 EGRATII 09/13/75 PROGRAM LENGTH EQHATIIIII 116
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EXTENTILLE 853
EXTERNALS
                                                                                                       EXTERNALS
ENDITITION
COMMON BLOCKS
ATMOSNITION
ENTRY POINTS
EGRATITI
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TO THE THE THE

			LIIII RITEZIIIII RITEFIIIII ELOENSIIII	CREATLIII: RAOTRANIII DSPWRDIII: SUGVECIII: ALOGIOIII: UNITVIIII SEPAIII: XKRTAIIII DSTROYIIII RBAREXÏIII PUTBOTIIII PUTDRMIIII	
NO 1111111	NITI1111 NLOKDS1111 END1111111	1111110N	SUBVECITI VECTULITI MIXERITITI INDWRLITTI SUBVECITI VECSUMITI EXTXILITI ENDITITITI CONCONITI IZ CONCONZITI Z	XMITILILI INDWRDIILI RITEFILLI CREATLILLI VECSUMILLI EXTXIIII CLINTIILI ALOGIOLILI ABSORBĪIII WIPOUTIIII NLOKOSIIII DSTROYILLI CONCONILLI IZ CONCONZIII Z	
EXTERNALS LIMITSIII XMITITIII IGRANDIIII ENDIIIIIII COMMON BLOCKS MGGTDIIII 427 ENTRY POINTS EYESIIIII	BI EXTERIO 09/13/75 PROGRAM LENGTH EXTERIOR 143 EXTERNALS INDWALLIII UNITVIIII VECLINIIII DINITIIII NLOKOSIIII ENDIIIIIII COMMON BLOCKS III 130 BASICOSIII 5 EXTERIOR POINTS EXTERIIII	82 E211111 C9/13/75 PROGRAM LENGTH E21111111 100 EXTERNALS E1111111 SGRT111111 EXPI111111 ENDI111111 E1111111 SGRT111111 EXPI111111 ENDI111111	PROGRAM LENGTH FRANCES FRANCES FREPALES FREPALES FRANCES FRANC	PROCRAM LENGTH PROCRAM LENGTH FRICTIS:: 720 EXERANDS INDWALLIS NEXTISSISSISSISSISSISSISSISSISSISSISSISSISS	85 FBOUT!! 10/01/75 PROGRAM LENGTH FBOUT!!!! 756

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PROGRAM LENGTH
PROGRAM LENGTH
FILERSIII 354
EXTERNALS
ACCORNIII SAMPLIII CREATLIII DSPWRDIIII XMITIIIII BORDERIIII NLOKDSIIII RITEFIIII ADVANCEIII 'COBIANIII
MATDIAGIIII KALMANIII ENDIIIIII
COMMON BIOCKS
FILERSIII SAMPLIII SAMPLIIII SPWRDIIII XMITIIIII BORDERIIII NLOKDSIIII RITEFIIIII ADVANCEIII 'COBIANIIII
ENTRY POINTS
FILERSIII SAMPLIIII SAMPLIIII SAMPLIIII SAMPLIIII SAMPLIIIII BORDERIIII NLOKDSIIII SAMPLIIII ADVANCEIII 'COBIANIIII
    PUTOIA::: AMIT:::: DUTDRM:::: INDWRL::: MIXER:::: DSPWRD:::: INDWRD:::: END:::::: PAEV:::::
                                                                                                                                                                                                                                               GBNTRYIIII INDWRLIIII RITEZIIIII XMITIIIIII XMAGIIIIII ALOGIOIIII ABSORBIII: RBAREXIIII RCSMOOLIII COSIIIIIIII
RANFIIIIII ALOGIIIIII SORTIIIIII ASINIIIIII CREATEIIII INDWRDIIII PUTBOTIIII PUTGAIIII NLOKOSIIII OSTROYIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FUZINCI 09/13/75
PROGRAM LENGTH
FUZINCIIII 521
EXTERNALS
INDWALIII SINIIIIII XMITIIIII TAYLORIIII SORTIIIII ENDIIIIIII
                                                                                          12 CONCON2:11
EXTERNALS

QBN RY:::: INTRP::::: NEXT!!!!!! CREATE!!!!

QBN RY:::: LOCCLAX!!!! VECLNIT!! XMAG!!!!!!

MCHRR!!!! PLHEAV!!!! PLSTR!!!!! PUTORAT!!!

COMMON BLOCKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FITTERIII 538
EXTERIII 538
AGGGEFFII ALOGIIIII SOLVEIIII ENDIIIIIII
FITTERIIII
                                                                                               CONCONI
                                                                                                 S
                                                                             ENTRY POINTS FROUTILITIES
                                                                                                                                                                          FFLD111 09/13/75 PROGRAM LENGTH FFLD111111 426 EXTERNALS
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PROGRAM LENGTH
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CXTERNALS
END:::::::
ENTRY POINTS
FRCVOL::::
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GETMAP! 09/13/75
PORGRAM LENGTH
GETMAP::: 303
EXTEPLALS
ADPILITI: UNPX!!!!! BUFFE!!!! IOCHEK!!!! LENGTH!!!! ACGOER!!!! ZORUM!!!!: XMIT!!!!! END!!!!!! GOATITI 10/01/75
PPGGRAM LENGTH
6041:11:11 145
EXERNALS
INCHLITI SORT:11:11 RITEF::11 SINII:1:11 NLOKDS::11 END::11:11:
COMMON BLOCKS
ENTRY POINTS
GOAT:11:1:
GOAT:11:1: GEODUAI 19713/75
PROGRAM LENGTH
GEODUAI:: 181
EXTERNAL: 182
SINIII ACOSIIIIII SQRTIIIII ASINIIIII ACOSIIIIII ENDIIIIIII
COMMON RUCKS
CNSTNIIII 11 PARAMSIIII 940
EENTRY POINTS
GEODUAI:II PROGRAM LENGTH
PROGRAM LENGTH
FZFIIIII 60
EXFERMALS
SOPTIIIII ALOGIIIIII ENDIIIIIII
ENTRY POINTS GENOBBILL
GENOBBILL
EXTERNALS
EXTERNALS
COMMON ALOCKS
CONCON III I CONCONZIII Z
GENOBBILLI
GENOBBILLI CUMMON RLOCKS

LII 113 BASICOSIII

ENTRY POINTS
FUZINCIIII 96 GRADNE! 09/13/75 PROGRAM LENGTH GENORBI 09/13/75 PROGRAM LENGTH 46 56 6 26 63

12 CONCONZIII

S CONCON::::

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105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 PARAMSI:11 940 HGRID1:111 3352
                                                                                                                                                                        PROGRAM LENGTH
GROSETIII 465
ENTERPLACE
INDACLISIS ATMOSSISSIS SPCMINISS OUTPTCISS EXITISSIS OF SISSISSISSIS OF STANDS OF SELDISSISSIS OF SPCINS O
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PROGRAM LENGTH
GATDONIII 573
EXTERNALS
EXTERNALS
INDWALLIII ETMPRADIII RADZETHIII XMITIIIIII BFIELDIIII COSIIIIIIII SGRTIIIIIII ASINIIIIII ACOSIIIIIII
ODASFOILII ETMPRADIII ENCHRIIII ENDIIIIIII
COMMON ALCONII SADZETHIII ENCHRIIII ENDIIIIIIII
COMMON ALCONII SADZETHIII SADZETHIIII SADZETHIIIII IN PRPREGIIII S PARAMSIIII 940 HEIGHTIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRPAEGIIII
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 REZONNIIII 222 CNSTN1IIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S HGRIDIIIII 3352 MGRIDIIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRUECIIII 88
EXTEQUALS
COSTITIII SINIIIIII SORTIIIIII ENDIIIIIII
COSTIIIII SINIIIIIII SORTIIIIII ENDIIIIIII
COHMON HOLOGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOSCONIIII TONLEKIIII CHXLOSIIII ENDIIIIIII
GRADNEIIII 48
EXTERNALS
ELDEMSITTE VECLINIIII ENDIIIIIII
ENTRY POINTS
GRADNEIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENTHY POINTS GROSETIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENTRY POINTS
GRIDUPIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INDWALLITTE ENDITITIES COMMON PLOCKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GRIDUP: 09/13/75
PROGRAM LENGTH
GRIDUP::: 26
EXTERNALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROGRAM LENGTH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ENTRY POINTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GRVECIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GRIDON: 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRVECII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HOPARTI
                                                                                                                                                                                                                                                        GROSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101
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	10CHEK:::	REZONE::::			DSPWRD
	SPCHIN::::::	GRIDUP:			CREATLITT
	IONOSUITE	XMITTIES S	ø		SORTIII
	ACGOER:::	HYDROG:::: IND#HD:::: PRPREG::::	CONIONIII		NINI
	STR[PR::::	SIIII LSLNTHIIII TIIII NEXTIIIIII BLANKCZIII 804	BLANKC4111 5200		COSIIIIII
•	0UTPTC:::: COS:::!!!!	NLOKO PUTBO	98		SEPALLILI
GADGETIIII	ATANIIIII SINIIIIIII ATMOUPIIII	DEPINDITITE MOVFB21111 BLANKG1111	BLANKC3.		X M M M M M M M M M M M M M M M M M M M
CONIONITIE	11111 DOT1111111111111111111111111111111	BASICOSIII S	BLANKC2111 804	CONCONZ!!! 2	II LOCLAXIIII
	3/7 99 199 NLIN	23.72 27.02 20.2 20.2	37.78	67H 38 END::1	09/18/75 NGTH 11 1485 11 SUBVECIIII
COMMON ALOCKS CNSTNIIII ENTRY POINTS HOPARTIIII	PROGRAM LENGTH PROGRAM LENGTH HEFTCHIII 19 EXTERNALS XMAGIIIII ST ALOGIIIII AL COMMON ALOCKS HGHIDY POINTS HEFTCHIII 33 HFETCHIII 33	PROGRAM LENGTH HIGHERITIT EXTERNALS OBNITATION COMMON RICKS ENTRY POINTS HIGHRY POINTS HIGHRITTI	PROGRAM LEGGTH PROGRAM LEGGTH PROCHENIII EXTERNALS ENDIIIIIIII COMMON PLOCKS BLANKCIHII 18 ENTRY POLINTS PROHEMIIII	PROGRAM LEN PROGRAM LEN THOS!!!! EXTENALS SQRT!!!!! COMPON PLOS ENTRY POINT!	HYDMRG! PROGRAM LEN MYDMRG!!!! EXTERNALS INDWRL!!!!
	102	103	• 01	105	

RBAREXIIII INDWRDIIII MIXERIIII ENDIIIIIII 1 202 BASICOSIII S CONCONIIII 12 CONCONZIII 2 PARAMIIIII 3 CONBBIIIII 50	VOAJ75 H 619 CREATLIIII NEXTIIIIII INDWRLIIII XMITIIIIIII SUBVECIIII XMAGIIIIII DOTIIIIIII SORTIIIIII PUTBOTIIII INMRDIIII DSTROVIIII PREVIIIII REMOVPIIII MIXERIIIII ACGOERIIII VECLINIIII SYZYGYIIII CIPHERIIII MATMULTIII VECSUMIIII EXPIIIIIII SCHCKIIIII ENDIIIIIII 202 BASICOSIII 5 GEOMDIIIII 7 CONCONZIII 2	9/13/75 317 NEXTIIIII SECONDIIII ECROTTITT HYDROITTI ECWRIIIII OUTPTCIIII TIMVARIIII ENDIIIIIII 5 130 BASICOSIII S BLANKCIIII 1985 BLANKCZIII 804 CNSTNIIIII 11 FVENTXIIII 41 PRPREGIIII 940 ENERGYIIII 103 HEIGHTIIII 105 CELLLSIIII 241 REZONNIIII 222	V.13.775 H 235 SQRT::::::: ENECHK;::: END::::::::: 241 LINK::::::: 2	AND! 09/13/75 POGRAM LENGTH PAGRAM LENGTH TABASICII: 133 XYERSIALS XYERSIALS TO BASICOSIII S HGRIDIIII 3352 HGRIDIIIII & 27 NTRY POINTS TO BASICOSIII S HGRIDIIIII 3352 HGRIDIIIII & 27
CONCONIII	IIII NEXTIIIIII INDARLIIII XHI IIII DSTROVIIII PREVIIIIII REN TIII VECSUMIIII EXPIIIIIIII SC BASICOSIII S GEOMDIIIII	BASICOSIII ECROTITITE BASICOSIII S BLANKCIIII ENERGYIIII 103 HEIGHTIIII	1111 ENECHK;;;; END;;;;;;;	LSLNTHIIII
ALOGIIIIII RBARE) COMMON ALOCKS ENTRY POINTS HYDMRGIIII	PROGRAM LENGTH HYDROISISS 619 EXTERNALS LSLNTHISS COSPAROISISS INWARD LOCLXSISS HATHUL COMMON HLOCKS ENTRY POINTS HYDROSSISS	108 HYDROG: 09/13/75 PROGRAM LENGTH HYDROG!!!! 317 EXTENALS MIXER!!!! NEXT!! COMMON BLOCKS COMMON BLOCKS I!! 130 PAPAMS!!!! 940 ENTRY POINTS HYDROG!!!	109 HYDRO1: 09/13/75 PROGRAM LENGTH HYDRO1::: 235 EXTERNALS DELTIM::: SGRT:: COMMON BLOCKS COMMON PLOCKS CONTRY POINTS HYDRO1:::: 11	110 IGRAND: 09/13/75 PROGRAM LENGTH IGRANOTH: 133 ETTEPHALS XWAG: 1:1:1 HFETCH COMMON BLOCKS IGRANDITS IGRANDITS

PARAMS:::: 940 PRFLAG:::: 1				VECLINIIII XMITIIIII UNITVIIII RITEZIIIII POINTSIIII CREATEIIII SEPAIIIIII XMAGIIIIII	
PRPREGIIII 5				EC111	12 CONCONZIII 2
CNSTN1:111 11		END:::::		, x3	CONCON:::: 12
GEODUALILI OUTPTCIILI ENDILLILI COMMON RLOCKS BLANKCIILI 1985 BLANKCZIII 804 ENTRY POINTS INDEXILLI	112 INDRM:: 09/13/75 PROSPAM LENGTH .INDRM::::: 142 EXTERNALS TOCHEN::: 180RUM::::: END::::::: HGATO:::::: 3352 ENTRY POINTS INDRM:::::	113 INITAL: 09/15/75 PROGRAM LENGTH INITAL: 349 EXTERNALS E) 11:11:11:1 EXPISIT: 1: DRATE::::: COMPON BLOCKS ATTOSTILI: 15 WRATE::::: 159 ENTRY POINTS INITAL::::: 159	114 INSIDE: 09/13/15 PPGGRAM LENGTH INSIDE::: 45 EXTEPLALS XMAGIIIII DOTIIIIIII ENDI::::::: COMPON PLOCKS MGGIIIIII 3352 MGRIDI:::: 427 ENTRY POINTS INSIDE::::: 427	174 666 MIXERIIIII NEXTIIIII DUSTUPIIII DUSCATIIIII	EWINY POINTS INTRPILLIS INTRPILLIS INTRA INTRA

IONOSUI 09/13/75
PROGRAM LENGTH
10.05U:III 472
LONOSUIIII 472
LONOSUIIII 472
AGGERRIII ALOGIOIIII EXPIIIIIII RATEIIIIII SORTIIIIII ATMOSIIIII RBAREXIIII SINIIIIIII ENDIIIIII
COMMON FLOCKS
ATMOUPIIII 21 IONOUPIIII 4 ALTODNIIII 119 ZHCHEXIIII 1
IONOSUIIII 1 KALMANI 09/13/75
PROGRAM LENGTH
KALMANIIII 511
EXTERNALE
MATRATISIII MATMULTIII MATADDIIII CHOLSKIIII RITEFIIIII MATSUBIIII ENDIIIIIII
ENTRY POINTS
KALMANIIII KUTTA!! 09/13/75
PROGRAM LENGTH
KUTTA!!!!! 168
EXTENALS
XMT!!!!!! ACGOER!!!! END!!!!!! ENTRY POINTS 130 BASICOSIIII DCOBIAN 09/13/75
PROGRAM LENGTH
JCORTANIII 105
EXTERNALS
XMITIIII ENDIFFIFITE
JCORTANIII IONLEKI 09/13/75
PROGRAM LENGTH
IONLEKIIII 131
EXTENNALS
RRAGEKIIII ENDIIIIIII
ENTRY POINTS JULIANI 09/13/75
PROGRAM LENGTH
JULIANIIII 72
EXTEMALS
ENTRY POINTS
JULIANIIII COMMON BLOCKS 122 118 119 120 111 121

	DSPWRD:::: PUTBOT::::				CREATLIIII OSPWRDIIII	
	STREPIIIII OUTPTSIIII 0SS	21			ASIN(:::11	
		5230 WEDEPOILI1			ATANIIIIII	
	XMITTITITI ORAPITITITI ENDITITITI 115 BASICOSTIT 5	BLANKCA			ONEMGS1;11 SORT:111111	
	INDWRDIIII XWITI NLOKOSIIII ENDII	BLANKC3111 6580	END::::::	ENDIII		
KUTTA::::	LAUNCHI 09/13/75 PROGRAM LENGTH LAUNCHIII 226 EXTGG'ALS GRATOTIII INDWRLIII CREATLIIII CREATEIIII PUTORAIIII NEXTIIIIII COMUNN RICOKS CONCONIIII 12 CONCONZIII 2 ENTRY POINTS	LEKSPC: 09/13/75 PPOGRAM LENGTM LEKSPC::: 68 LEKTENALS SQPT::::: END:::::::: CGMMON BLOCKS PLANKC:::: 1995 BLANKC2::: 804 EKSPC::::	PROGRAM LENGTH	LOSCONI 09/3/75 PROGRAM LENGTM LOSCONI:11 243 EXTROMALS RABEKXIII ALOGIIII:1 SQRTIIIIII ENDIIIIIII ENTRY POINTS LOSCONIIII	MAGFITI 09/13/75 PROGRAM LENGTH MAGFITI:11 231 EXTERNALS INDWRLISS LOCKDSSISS INDWRLISS CONCONSISS COMMON PLOKES SISS STATEMENT STATEMENTS TO STATEMENTS MAGFITI:1 BASICDSSISS MAGFITI:1	MCHARCT 09/13/75
	8	\$.	17 521	921	151	128 MC

MNOPLS; 09/13/75
PROGRAM LENGTH
MNOPLS:::1 381
EXTERNALS
EXTERNALS
INTERNALS
INTERNALS
COMMON BLOCKS
COMMON BLOCKS
COMMON BLOCKS
HIT 113 BASICDS::: 5 CONCON:::: 12 CONCONZ::: 2
ENTRY POINTS
MNOPLS:::: PROGRAM LENGTH
MLTPATHILI 234
EXTERNALS
EXTERNALS
INDMFLI:: PREVIIIII NEXTIIIII MIXERIIII SURVECIIII XMAGIIIIII INDMFDIIII DSPWRDIIII RADTRANIII BOUNCEIIII
GOAIIIIIII CREATEIIII XMITIIIIII SORTIIIII PUTORAIIII DSTROYIIII NLOKDSIIII ENDIIIIIII MEASERR 09/13/75
PROGRAM LENGTH
PRESERRI: 163
EXTERNALS
IND/#RLII: SQRTI::!!! RNV!!!!!! NLOKDS!!!! RITEF!!!! END!!!!!!! 12 CONCONZIII 12 CONCONZ!!! S CONCONIIII S CONCONIIII ENTRY POINTS
MLTPATHIII ENTRY POINTS
MUTSPLT::: ENTRY POINTS
MEASERRIII PROGRAM LENGTH
MCHARCTIII 60
EXTERNALS
MCHARIIII ENDIIIIIII
ENTRY POINTS
MCHAHCTIII MNOPLSM 09/13/75
PROGRAM LENGTH
MNOPLSMIII 346
EXTERNALS MLTPATH 133 132 129 130 131

SCAN SCAN SCAN SCAN SCAN SCAN SCAN SCAN	134 MNOPLS1 PROGRAM LE MNOPLS1: EXTERNALS INDWRLIS COMMON RLC ENTRY POTT MNOPLS1:	MODEL:: PROGRAM LL PROGRAM LL EXTERNALS CONELS:: SURIAS:: COMMON BLC ENTRY POTE	MODELTI PROGRAM LE FIOSELTI PROFILI INDEALS VECULIII VECULIII VECULIII COMMON HLC	MODICONI PROGRAM LE KOCLONIII EXTERNIZE INDERNIZE COMMON PARMIEL COMMON POTRE
ENDININGLESS NEXTS COWNON BLOCKS SELECTED FOR STATE SELECTED SELECTED SHIPS SH	100 110 110 110 110 110 110 110 110 110	ENGT	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 11 11 10 10 10 10 10 10 10 10 10 10 1
BASICO	75 RDIIII SINI BASICOSIII	PASICO	75 70 8 A S I C D	25 12 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NLOKDS1111	/13/75 H 119 INDWRDIIII SINIIIIIII 113 BASICOSIII 5	DSPWRD:::: XMIT::::: OFFSET:::: ACGOER:::: S:::	ASIN::::::: XMIT:::::: MATMULT:::: ATMOS:::::	SEPA::::::
RANFILLLI	CONCON::::	MODELT MODELT MIPOUTIES ENDISTEE CONBB	RBAPEX:::: LOCLAX:::: SUG9:::::: CONCON::::	SINIIIIII
COSITITITI SINE	ATANZIIII NLOK 12 CONCONZIII	INDERDITTI PUTRI RADOUTTITI SUBVI INDERLITTI ENDER	SGRTIIIIII ACGO CREATEIIII PUTB DSTROYIIII ELFI NLORDSIIII ENDI	XMAGIIIII RBAR ALOGIOIIII INDW Z CONBBIIIII
SIN::::!!!	ATANZIIIII NLUKOSIIII ENDIIIIIII	PUTROTIIII SUBVECIIII ENDFILIIII	ACGOER:::: PUTBOT:::: ELF:::::: END:::::::	RBAREX:::
SIN:11:11:1 SORT:11:1:1 TAN:11:1:1:	END	NEXT ::::: XMM6:::::: BACKSP:::::: CONCON2:::	TAN::::!!! LOCKDS::!! AZF!!!!!!!	0UTPTC:::
		0UTPTC:::: HIXE SEPA:::::: COS: SUBIZ::::: SUBI	ATAN:::::: COS: NEXT:::::: SURV. SIN:::::::: RITE 25 PARAH:::::	WOXC:::::: ALOG END:::::::: ALOG 202 PASICOS:::
AMBGN:::		MIXER::::	COS:::::::: SURVEC:::: RITEF::::: 33	AL06:11:11
ATAN2:1111		HYDMRG::::	SUB2 XMAG2::: SUB3:::::	S0R7:::::

138	MOVFBII PROGRAM LENGTH MOVFFIIIII ROOFFIIIII ROOFFIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIII SORTIIIIII SORTIIIIII SORTIIIIII SORTIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	RBAREXIIII ASINIIIIII III 202	OUTPTC:::: RBAIEX:::: BASICDS::::	INDWRLIIII PROPI XMITIIIIII RADOO S PROPRIVIII	PROPTY::::	SINITITI	RITEFILITI WOXC	WOXC::::: INDEX:::::	INDEX:::
139	MOVFB21 PROGRAM LENGTH MOVFB21111 1029 EXPENTINI 1029 EXPENTINI FBAREXIIII COMMON PLOCKS PARMITITI 54 EXTRY POINTS MOVFB21111	NEXT SIN	INDWRLIIII UNITVIIIII BASICDSIII	PMITILLI TIHV VECLINILI BFIEL S EVENTXILLI	TIHVARIIII BFIELDIIII	SORT:::::	ASIN::::::	ATAN: 1:11	END
•	MULTIII 09/13/75 PPOGRAM LENGTH MULTIIIII 60 EXTERNALS ENDIIIIIIII ENTRY POINTS MULTIIIIII								
Ξ	MULTOAR 10/01/75 PROGRAM LENGTH MULTOARIII 306 EXTERNALS INDWRLIIII XMITIIIIII RADTRANIII COMMON RLOCKS ENTRY POINTS MULTOARIII 5	RADTRAN:::	CONCONITIT	SINIIIIIII NLOKOSIIII SGRTIIIII EXPIIIIII ENDIIIIII	NLOKOS;;;;;	S08711111		END:	
145	PROGRAM LENGTH NOISELLIL 670 EXTERNALS INDURLILI XMTILLILI RITE: EXTERNILI HOSSILLI VECL NLOKOSILLI ENDILLILLI VECL NLOKOSILLI ENDILLILLI ENTRY POLINTS NOISELLILI NOISELLILI	RITEZIIIII VECLINIIII	CONCON::::	COSTITITITY SINI	SIN:11:11:11 ABSINC:1:1	NEXTI	MIXERI TEFT	INDWRD ACGOER::::	STON:

	SUBVEC:!!! XMAG!!:!!! CREATE!!!! DSPWRD!!!! PUTBOT:!!!		ACOSILILII OUTPTCIIII SINIIIIII SOATIIIII ATANZIIII	EULANGIIII SORTIIIII EXPIIIIII STVIIIIII DOTFIFIII	
MATMULTIII OUTPTCIIII ENDIIIIII	RBAREX!!!! NEXT!!!!!!		COS1111111 FDIV1111111 GBERRORI11 STOP111111	CROS111111 CROSS11111	
NSOLVE: 09/13/75 PROGRAM LENGTH PROGRAM LENGTH EXTERNELS JCORIANIII MATNURTIII MATMULTIII ENTRY POINTS NSOLVEIIII	OFFSETI 09/13/75 PHOGRAM LENGTH OFFSETI 11 607 EXTERNALS INDUCLI: SORTII::: ALOG:::::: CUTTY:::: END:::::: SCHMON RLOCKS ENTRY POINTS OFFSETI:::	ONEMGS! 09/13/75 PROGRAM LENGTH ONEMGS!!!! 946 EXTERALG: SQRT!!!!! END!!!!!! ENTPY POINTS ONEMGS!!!!	088P111 09/13/75 PP0GRAM LENGTH ORAPILI11 319 EXTENALS XMIT11111 AGGOER1111 0RB7IM1111 COMPON HOLOKS CONCONTIT 12 CONCONZITI 2 ENTRY POINTS ORRPITITI	PROGRAM LENGTH ORACITIST 967 EXTERNALS XMAGISSISSEPASSISSES ORACITISTS SEPASSISSES ORACITISTS STOPSISSES DOSTSESSES COMMON FLOCKS ENTRY POINTS ORACITISTS ORACITISTS ORACITISTS ORACITISTS	OUTLIST 09/13/75 PROGRAM LENGTH OUTLIST::: 503
5	1	\$.	1	5	<u>*</u>

OUTSET:::					OVF821111
PACKILLI OU		416			REZONETT: 1 MG
TITLER::::	END:::::	11 TEMP111:11		ENDI	GRIDUPIII
XMIT:::	9713/75 103 Nextiiiii DSP#RDiiii OUTLISTiii NLGKDS::!! WIPOUT;!!! DSLNTH!!!! END!!!!!!	59 CNSTN1::::	END	N COKOS:	CHEMGIIII
PLOCKDS:	3 0 0 1		WONPILITI WOXPITITI ENDITITI	PUTBOTII:1	HYDR06:111
SETPLOTIII SETPLOTIII	NLOKDS::11	52 INTDATILLE		VECLINIIII PUTB	INDWRL
SETSCAL::	OUTLISTII	ENDITITION OEPDATITIE	INDWRDIIII	HBAREX1111 CONCON1111	ENDI
SILIE STOUTELLE SILIE PUTDRMILLE BASICDSILI S	8 BASICOS111 5	9/23/75 FH 816 EXP:::::::: TEXK:::::: END::::::::: 5 1985 RLANKC2::: 804 DEPDATI::::	9/13/75 TH 98 DEPINDIIII WOOPIIIIII INDWRDIIII S 202 BASICDSIII 5 NI3NXGIIII	SHILL CREATELLII	MIXERIIII
LOKOS	S S	8	S = -0 = - = - = - = - = - = - = - = - =	09/13/7 ENGTH 11 206 11 XMAG1 0CKS 11 130 NTS	CONSR 09/13/75 PREGRAM LENGTH PHEONSRII 313 EXTERALS GBNTRYII: ECRDI:1111 MIXERIIII ENDIII:111 INDWRLIII HYDROG:1111 CHEMGIIIII GRIDUPI:11 REZONE!1:1 MOVFB2!11:1
EXTERNALS INDICOL:::: COMMON RLOCKS COMMON RLOCKS ENTRY POINTS OUTLIST:::	PROGRAM LENGTY OUTRIVIES EXTERNALS GRATRYISS COMMON RLOCKS COMMON RLOCKS OUTRIVIES OUTRIVIES OUTRIVIES		PEOEPII PROGRAM LE PROGRAM LE PROGRAM LE PROGRAM LE PROGRAM NU ENTRY POII	2 0 0	d m
	•	150	181	152	153

РНОТОВ! 09/13/75 РЯООВРАМ LENGTH РЯОТОВ!!! 270 ЕХТЕРМАLS INDWACL!!: SPCMIN!!!! ALOG!!!!!! EXP!!!!!!! SUBVEC!!!! XMAG!!!!!! SEPA!!!!!! SIN!!!!!!! SORT!!!!! RBAREX!!!! PHIMPII 09/13/75
PROGRAM LENGTH
PHIMPIIII 98
EXTERNALS
GANTATIII INDWRLIIII MIXERIIII WHEREIIIII CREATEIIII XMITIIIII PUTORAIIII NLOKDSIIII ENDIIIIIII
COMMON BLOCKS 11 PRPREG:::11 INDAMLITT NEXTITITI SUBVECTITI XMAGITTITI DSPARDITITI RADOUTITITI RITEFILITI NLOKDSTITT ENDITITITI 15 ATMOUPILL 59 CNSTN1111: NEXTILLILI RITEZILLILI XMITILLILI INDWRDILLI NLOKDSILLI CREATELLILI PUTORALLILI ECWRILLILI COMMON BLOCKS 2 ATHCSTIIII 4 INTDATILL 12 CONCON2111 52 GADGETIIII 5 BLANKCIIII 1985 MONCHILLI EXPINITI ENDITITITI
CCHMON ALCKS ALANKCZIII 804 DEPOATITI
ENTRY POINTS
PHEATITITI 5 FOSRATIIII S CONCONIIII ENTRY POINTS ENTRY POINTS
PHEONSRILL ENDITITITE
COMMON RECOKS
COMMON PLOCKS
ENTRY POINTS
PHOTODITITE ENTRY POINTS COMMON BLOCKS PROGRAM LENGTH
PHOTORIIII 202
EXTERNALS
INDUCT PINTIII 09/13/75
PROGRAM LENGTH
PINTIIIII 59
EXTERNALS PHEATII 09/13/75
PROGRAM LENGTH
PHEATIIII 311
EXTERNALS PHOTORIII 11111dwIHd 158 157 156 155 154

		88			
	Exp	TEMP:::::	PLKSE6:::		
CHEXEGIIII	00.7976	PARAMS:::: 940	:: GETDXDY:::		
ů m	OUTPTS::::	r.	ISOPLOT:::		END:::::
PRPREGILL	HFETCH!!!! PLOTOUT!!!	PRPREG:111	SETTLE:::		ALFABET;:
INTDAT:::: 59	11111 UNITVIIII 14111 SETITLE::: HGRIDI:::: 3352	CNSTN11111 11	COS111111		0017751111
10 INTO	ROTVECIIII SETNAMYIII 5 HGRIO	S CASTA	SETNAMYIII		RBAIEXIIII
CNSTN11111	ISOPLOT::: SETNAMX;;; PRPREG::::	ENDITION	PUTOTA 1.1.1 SETNAMX 1:11		RBAREXIIII
BLANKCZIII 804	1111 SETPLOT111 1711 TERPHVIIII PARAMSIIII 940	BEDGE!!!!	CREATEIIII PLOTXPIIII DSIII S		
1985	1375 1375 HCHARI PLOTPN 105 PLZEAV	NE!! 09/13/75 ROGAM LENGTH PLINE!!!!! 489 XTERALS SCRT!!!!! PINT!!!!! BEDG OWON RLOCKS BLAKC!!! 1985 EVENTX!!!! PLINE!!!!	INK: 09/25/75 PLATING 11 PLATING 462 XTERNALS XTERNALS SOFT::::: PLOTPNT:::: PLOT OHMON PLOCKS NTRY POINTS PLATING 202 BASICOSI:: PLATINK::::	09/13/75 16TH 87 87 ENDITITIT	09/13/75 GTH 285 XMITIIIII ALOGIOIIII
BLANKCIIII ENTRY POINTS PINTIIIIII	PLHEAVI PROGRAM LENGTH PLHEAVIII 137 EXTERNALS FOTOVIIII HCH GETDXDYIII PCH GETDXDYIII 100 COMMON GLOCKS HEISHTINI 100 EXTERNALS PLHEAVIIII PLZI	PLINE:: 09/13/7 PROGRAM LENGTH PROGRAS EXTERNALS SCAT::::: 489 EXTERNALS CONVON FLOCKS BLANKCI:: 1985 ENTRY POINTS PLINE::::	PLKINK: 09/2 PROSPAM LENGTH PLKINKIII 4 EXTERNALS INCHARDIIII NE SORTIIIIII NE SORTIIIII PE COMMON PLOCKS ENTRY POINTS PLKINKIIII	PLKSEGI 09/1 PROGRAM LENGTH PLKSEGIIII EXTERNALS PLOTPNIII EN ENTRY POINTS PLKSEGIIII	PLOTAXI 09/13/ PROGRAM LENGTH PLOTAXIIII 2RS EXTERNITIII XMIT ENTRY POINTS PLOTAXIIII
	159	160	161	162 P	163

164 PLSTRI: 09/29/75

III PLOTPNTIII SETNAMXIII SETNAMYIII OUTPTSIIII	III RBAREKIIII OSXPNDIIII ENDIIIIII	III XMITIIIIII LSLNTHIIII NEXTIIIIII SEGPLTIIII III NUMBERIIII ALOGIOJIII ENDIJIIIII		11 EXTFB1:111 RITEF11:11 EXP11:1111 UNITV1:111
:: GETDXDV::: ALOGIO::::	II ORBPIIIII CORTRANIII	11 MCHARCTIII ALFABETIII 11 SINIIIIIII COSIIIIIII 11	_	LOCLAXIIII VECLINIIII II PHASSIIIII NLOKOSIIIII
468 UTPTC::::: TRPSTRI::: ISOPLOT::: LOTOUT:::: CROS!:::::: 00T::!:!!!	9/13/75 TH 153 RITEALLILL STOPLLLLLL XMITLLLLLL S 111 BASICDS/111 5 CONCON/1/17	II SYMBOLIIII AXISIIIIIII II MTIMEIIIII ATANZIIIII SICOSIII S CALCOMPIII	7.13.75 13.37 SORTII:111 ATMOSII:111 ENDIIIIII	CIIII XMAGIIIIII SEPAIIIIII BISICOSIII 5 CONCONIIII
PROGRAM LENGTH PLSTMIIII 468 EXTERNALS RAAREXIIII OUTPTCIIII SETITLEIII PLOTOUTIII COMMON ALOCKS MGGINIII 427 MAGLY ENTRY POINTS PLSTMIIII	165 PLIFRM: 09/13/75 PROGRAM LENGTH PLTFRM::: 153 EXTERNALS INDWRDI::: RITEA:::: COMMON BLOCKS ENTRY POINTS PLTFRM:::	166 PLTNIII 09/13/75 PROGRAM LENGTH PLTNIIII 1202 EXTERNALE PLOTSIIII PLOTIIIIII SYMB OUTPTSIIII MOATEIIIII HTIM COMMON ALCOKS III BASICOSIIII ENTRY POINTS PLTNIIIII PLTENDIIII PLTSI	167 PHASSII 09/13/75 PROGRAM LENGTH PWASSIIII 337 EXTERNALS EXPIIIIII SOPTIIIII COMMON RICORS CONCONIIII 12 CON ENTRY POINTS PWASSIIIII	168 PHASSFI PROGRAM LENGTH PAMASSFI:: 429 EXTERNALS INDWALL::: SUBVEC:::: INDWALL:::: INDWAD::::: COHMON RLOCKS ENTRY POINTS PHASSFI::: PHASSFI:::

CREATEIII	SUBVECIII	S0RT::::	ENDIT	BACKSP:::
VECLIN::::	RCSMODL111 SUBVEC1111	007::::::	COS1111111 STV11111111: END1111111	ACG0ER111:
HTOS.	DSPWRD:::: XMIT:::::	SUBVECI::: UNITV::::		MCHAR E
COS::::::			ATAN2111:1	H H H
11: SINI:::!!! 11: OSPWRD:!!! CONCONZ::: 2	CONCONZIII 2	11111 RCSMODL111 11111 CONCONZI11 2	ЖИТТ!!!!! SORT!!!!!!	OUTPTC:::
UNITVIII: PROJIIIII	SGRT !!!!!! NLOKOS!!!!	XMIT:::::: END::::::::		CHEKFIL 11:
SEPA1:11: SUBVEC:1:1	RADTRANIII PUTORAIIII CONCONIIII	RADTRANIII DSPWRDIIII CONCONIIII	STRILLLLL	ENDDOCITI
BASICOS:::	8ASICDS::: 5	BASICDS::: 5	SOLVX11111	1FENDF 1111
POINTS: 09/30/75 PROGRAM LENGTH POINTS::: 245 EXTERNAL:: XMIT:: INDWHOIS:: XMIT:: PUTORA:::: LSLNTP COMMON RICKS FOUNTS:::: 130 POINTS::::	POSLIST PROGRAM LENGTH PROSLISTIII 185 EXTENALS INDWRLIIII DOTIII COMMON RIOCKS III 113 ENTRY POINTS POSLISTIIII	POSSVII 09/13/71 PROGRAM LENGTH POSSVIIII 282 EXTEMALS INOWRLIIII CREATI PUTRALIIII NLOKOI CONVON BLOCKS III 113 ENTRY POINTS POSSVIIIII	POTSOL: 09/13/75 PROGRAM LENGTH POTSOL::: 1302 EXTERNALS ALGG::::: WRDISK!!!! SOLVX!!!!! COMMON GLOCKS HGGID!!:!: 3352 MGRID!!!!! 427 ENTSY POINTS POTSOL!!!!	PRECENTA 09/13/75 PRECENTALENGTH PRECENTALIS EXTERNALS RETINHISSISSISSISSISSISSISSISSISSISSISSISSISS
69	170	13	27.1	173

	14	0		
DSTROY::::	CHADED:::: CHXDEP:::: EVENTX::::	PARAMS : : :		AMPREF11:
NLOKDS1111	GEOQUA!!!! 	PROFRTY:::		REFCOI
MATRANS: 1.	BOUNDY PLINES	'n		AL06:::11
MATMULT::	ETH2RAD::: EUXFIT:::: ELANKC3:::: CONION::::	PRPREGILIE		INDERED
BLLSficiii	1111 DEPINDITIT 1111 DEBRISITIT 1111 BOA	BFIELD:::: END::::::::		X8E74:::
DSPWRO	SON STATE SON ST			A85INC:::
CREATLIII	INDWRLITTE SINITITITE ENECHKITTE BLANKCITTE PRPREGITTE	RAD2ETH::!		COLLF:::::
1111 DSLNTH1111 8ASICOS111 5	ECROILLIII COSTITITI ECRRITITITI BASICOSTITITI	(1::: ALOGII::::: BLANKC:::: 1985	-	ELDENS;; PUTORM;;;
13/75 189 MIT::	8/75 662 00017 00017 00017 00017	13/75 412 8AREX	09/13/75 ENGTH 11 117 11 ENDITITE 14TS	5/7 89 00KD 00KD
PREDLOC PROGRAM LENGTH PREDLOC::: EATENALS IND/ARL:::: END:::::: COMMON HLOKS COMMON HLOKS ENTRY POINTS PREDLOC:::	PROMPGI PROGRAM LENGTH PROCHEGIII 6 EXTENALS GONTRY:::: PR INCEX!::: PR PROFEMILI PR TOTEN PROCKS	PROPTY: 090, PROPTY: 090, PROPTY: 090, PROPTY: 1: EXTRALES ECROIS: 1: R ECROIS: 1: R ECROIS: 1: R PROPTY: 1: 1: R PROPTY: 1: 1: R	PTORCH: 09/1 PPOSPRH LENGTH PTORCH::!: EXTERNALS PLOTI:::! ENGTH POINTS PTORCH:::	PAROPE PAGGRAM LENGTH PAROPE:::: 1 EXTERNALS GANTPY:::: 1N PUTOI A:::: NL COMMON B::: 8 ENTRY POINTS PTPROPE:::
<u> </u>	27.	176	11	178

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PROGRAM LENGTH
RADARIIII 71
EXTERNALS
OBNIRVIIII CREATEIIII DSPWRDIIII RITEAIIIII STOPIIIIII SEARCHIIII SEARCHIIII VERIFYIIII TRACKINIII TRACKIIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RADMODS 09/13/75
PROCEDEM LENGTH
RADMODS:11

                                                                                                                                    EXTERNALS
INDMANLINI MAGGININI SUBVECTINI SEPANNINI LOCLAXININI DOTINININI VECLINININI SGRTININI COSTININI EXPINININI
INDMANLINI MAGGININI PROJITINI SININININI ENDINININI
COMMON GLOCKS
INDMAN GLOCKS
IN 130 BASICOSINI S CONCONINI 12 CONCONZINI 2
ENTRY POINTS
QINITNINI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QUAGEO! 09/13/75
PROGRAM LENGTH
QUAGEO!!! 172
EXTEMALS
COS!!!!! SQRT!!!!! SIN!!!!!! ASIN!!!!! ACOS!!!!! END!!!!!!
COMMON BLOCKS
CNSTN!!!! 31 PARAMS!!!! 940
ENTRY POINTS
QUAGEO!!!!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ENTRY POINTS
RACHODSIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ENTRY POINTS
RADARILLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09/13/75
NITII 09/27/75
PROGRAM LENGTH
GINITIIIII 727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09/13/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROGRAM LENGTH
QINVIIIII 120
EXTENALS
ENJIIIIIII
ENTRY POINTS
QINVIIIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON BLOCKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RADARII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OINVIII
     179 GINITII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 183
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
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09/13/75

PADMRGI

1ND#RD::::		SUBVECIII	ALOG10::::	
NEXTITITI VFUNC2::::		VECSUM::::	EXTX =	
LOCLAX;;;; NEXT OUTPTC;;;: VFUN 2 CONBB:;;;;		SEPALLILL	SORT :::::	
SGRT::::::	END	ATAN2::11:	RBAREX:::: SUBVEC:::: ENDI::::::	
SINIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	EXP1111111 ACGOER1111	001::::	CONCONZILI	
XMIT:::::: ATMO	A ×	5087:::::	INDWRDIIII CREATEIIII PUTTOPIIII 12 CONCC	
SEPA111111 ATAN2111111 ARRAYS11111	RBAREXIII	VECLIN:1:1	DSPWRD::::	
PROGRAM LENGTH PADMAGIIII 797 EXTERNALS INDMACLIIII SURVECIIII XMAGIIIIIII STOPIIIIII RBAREXIIII DOTIIIIIIII ENJIIIIII RAREXIIII DOTIIIIIIII ENJIIIIII RAREXIIII STOPIIIIII COMMON BLOCKS ENTRY POINTS RADMAGIIII	DOUT! 09/25/75 PROGRAM LENGTH RECOUTII! 1577 XMITIIIII INDWRL!!! ALOG!!!!!! RBAREX!!!! COMMON BLCCKS ENTRY POINTS RADOUT!!!	DTRAN 09/13/75 PPOGRAM LENGTH RACTANNII 352 RYTENALS XYTIIII STOPIIIII LOCLAXIIII XWAGIIIII SINIIIIII COSIIIIII CONCONIII I CONCONIII Z	PRGGRAM LENGTH AD1511111 530 EXTENALS GANTATII I NOWRLIII NEXTIIIIII COLLETIII ABSINCIIII PUTBOTIIII COMMON ALOCKS ENTRY POINTS ENTRY POINTS RAD1511111	TEIII 09/13/75 PROGRAM LENGTH PROGRAM LENGTH 69 EXTERNALS RRAPEXIII EXPIIIIII ENDIIIIIII CHEMRIIII 198 ENTRY POINTS RATEIIII
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	PROGRAPHORE RANGE EXAMINATE COMMINATE RANGE RANG	A P P P P P P P P P P P P P P P P P P P	PROGRE PROGRE CONV	PATE::

50 TA 00 TA	057807:11	AL0611111	BF1ELD:::	:: :: :: :: :: :: :: :: :: :: :: :: ::
SEPAIIIIII ACGOERIIII TRPLATEIII COSIIIIII SINIIIIIII SORTIIIII	NE XT::::	RITEFIIII RBAREXIIII EXPIIIIII ATANZIIIII SINIIIIII ALOGIIIII	COLLF11:11 EXP1111111	EXPINITION SINITION
	WIPOUT:::	ATAN211111	COLLF1:11	
TRPLATE::	INDWRL	EXPILI	ABAREX	COLLF !!!!
ACG0ER::::	TRACKX::::	RBAREX1111 N2111: 2	SEPALI1111	SEPAIIIIII RBAREX;IIII
SEPAIIIIII ACGOI	TRCK INK	RITEFIIII RBARI 12 CONCONZIII	SUBVECT:11 SEPA	
D04	VERIFYXIII	XBETA::::: END:::::::: CONCON:::::	XMAG111111 INDWRL1111	SUBVECITIE
SIII SUBVECTITI SIII ENDITITITI CONCONZITI 2	/13/75 H R3 Stapiiiii SEARCHXIII VERIFYXIII TRCKINXIII TRACKXIIII INDWRLIIII WIPOUTIIII NEXTIIIIII DSTROYIII	BASICDS:::: 5	0	7,13,75 H 23.7 XMAGIIIII INDWRLIIII 130 BASICOSIII S
PROSPAM LENGTH RCSWOLLII 303 RTSWOLLII 303 RTEFALS INWHLIII TUMBLRIII RITEZIIII NLOKDSIIII COMMON ALOCKS CONCONIII 12 CONCO ENTRY POINTS RCSWOOLIII	PROPROC: PROGRAM LENGTH ROPROCI:: 83 EXTERNALS GAN,FYY::: STOP::::: COMMON RLOCKS III 113 ENTRY POINTS ROPROCI:::	REFCO:: 09/13/75 PROGRAM LENGTH REFCO:::: 476 EXTERNALS INDWALL:: ATMOS!:::: COMPON PLOKS COMPON PLOKS FETCO:::: 202 BASIC	PROGRAM LENGTH PRECOLLILI 262 EXFENALS EXTENALS EXTENALS STATISTIC ENDITISTIC COMMON PLOCKS ENTRY POINTS REFCOLLITI REFCO	REFCO21 09/13/75 PROGRAM LENGTH REFCO2111 237 EXTERNALS ELDENS:1:1 XMAG:1:111: COMMON BLOCKS ENTRY POINTS
0 0 0	29. B	161	192	661

	NEXTILLE	PUTORA:::	SUBVEC:::: BIAS::::: END:::::::	DISPERS:::	INDWRDITTE
	NL OKDS: ::	817EF1111	PROJELLE GRADNELLE: ATAN::::::	SORT 1::11 SURVEC 11:: NLOXDS:111	NEXT
	PUTORA:::1	604111	VECL IN: 11: COLLF: 111 DSTROY: 111	RBAREX:::: CREATE::::: PUTTOP:::::	ECKP
	RNVIII	XMIT	NEXT:::::: ELDENS::::: FUZINC::::	STOP::::	ENECHKILL
	XMITITITI	1NDW4D::::	1111 HTOS11:111 1111 DSPWHD1111 1111 STWCTUR!11 CONCONZ:11	CONCONZ::: 2	RBAREX:::
	INDWRD::::	DSPWRD::::	XMAGIIIIII CREATEIIII SORTIIIIIII 12 CONCO	RADTRANIII REFLSTN: 11 ABSINC: 1111	TEXKIIIII
	DSPWRD::::	CREATL!!!	CAOS11::::::	XMAGIII: COLFIIII: CONCONIIII	SORTIIII
	RIII CREATLIIII	NIII RNVIIIIIII	SINITE SINITE SEPARATION SEPARATI	INDWRDIIII INDWRDIIII IIII REFLSTIIII IIII ELDENSIIII BASICOSIII S	EXP
	244 244 MULTOA ENDISS 113	421 421 RADTRA NEXTI	576 576 COS:11 SECOND UNITVI	30/75 445 NDWRL 17EF XTX::	09/29/75 10TH 1746 FRCVOLIIII
251111	REFLSTN III	PREFLSTII PROGRAM LENG PROGRAM LENG EXEENALS INDWRLIII NUNDSIIII COMMON BLOCK III ENTRY POINTS REFLSTIIII	REFRCT: REFRACT::: EXFERALS INDWHD:::: GROSS!::: GROSS!::: GROWON BLOCKS ENTRY POINTS REFRCT::::	PROGRAM LENGTH REFISSION REFISSION CONTRYINI COSTITUTION COMMON BLOCKS COMMON BLOCKS REFISSION REFISSION	REZONE: 09/29/ PROGRAM LENGTH REZONE:::: 1746 EXTERNALS ECRD:::::: FRCV
	•	195	196	161	198

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S PAZAMS:::: 940
                    11 PRPREG::::
                      804 CNSTN11111
HEIGHTIII 202 BASICDSI:: 5 BLANKC::!! 1985 BLANKCZ!!!
ENTRY POINTS
REZONE!!!!
                                                                                                                                                                                                                                                                          PROGRAM LENGTH
PROGRAM LENGTH
FRIFFIIII 298
EXTERNALS
OUTPICIIII LOCFIIIIII ENDIIIIIII
COMMON BLOCKS
ENTRY POINTS
RITEFIIII RITEIIIII RITEZIIIII RITEZIIIII
                                                                                                                                                                            RICATTI 09/13/75
PROGRAM LENGTH
RICATTIII 346
EXTERMALS
EXPITIII ALOGIIIII Elliiiiii ENDII: iiii
RIRAY POINTS
RICATTIIII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ROOTTII 09/13/75
PROGRAM LENGTH
ROOTTIIII 70
EXTERNALS
RBAREXIII OUTPTCIIII ENDIIIIIII
TESTRIIII 1
ENTRY POINTS
ROOTTIIII
                                                                                                                                                                                                                                                                                                                                                                                               RITEVII
POSCRAM LENGTH
RITEVIIII 135
EXTEVALS
LOGFILLII OUTPTCIIII ENDIIIIIII
RITEVIIII
                                                                               RHOZ111 09/13/75
PROSPAM LENGTH
RHOZ111:11 27
EXTERNALS
ATVOS1111 END111:111
ENTOY POINTS
RHOZ11111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ROSCOE: 09/13/75
PROGRAM LENGTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   504
                                                                                                                                                                                500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                203
                                                                                                                                                                                                                                                                              201
                                                                                                                                                                                                                                                                                                                                                                                                  202
                                                                                    199
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BASICDSIII	FLEXREDIII	EMD:::		LOCLAX:1:1 CREATE:::	
-	3	VECLINIII E		DOT111111 LA DSPWRD1111 CAL 06101111 P	
3 PLTONTILL	RANFILLILI SETK	SINILLERIE		DSLNTH XMITTI	
PRDSVV::::	INITITITI	C08111111		SEPAIIIII CREATLIIII XTHRSHSIII	
END	HORDATA::: IN]::::::: NZ:::: Z PROSAV::::	AC0S111111	END	CONCONZ:::	
OVERLAVIII ENDIIIIIII 2 HEDSAVIIII 3	HEAD!!!!!! MORD		VECLIN	XHAGIIIII SINIIIIII LSLMTHIIIII L2 CONCO	
CONCONZIII	TITLINiiii	X A A A A A A A A A A A A A A A A A A A	X M A G : : : : : : : : : : : : : : : : : :	SUBVEC::::: COS::::::::::::::::::::::::::::::	
CONCON:::: 12	PREDATALLI FILL ENDITELLI BASICDS:11 5	. CR0S111111	HILL SUBVECTITE BASICDS::: 5	MHERE:::: NAT::: NEXT:::::: NEXT::::::: RESICOS::: SAX:::	
S 24	09/13/75 1 90 1 XMIT!! 1 LOCKDS 1 111 1 111	09/13/75 ENGTH 11 94 11 CROSS!!!!	09/25/75 11 85 11 INDWRC 0CKS 12 202 11 202	13/78 185 17F8 10KD 57R0 5115 EARC	09/13/75 ENGTH
EXTERNALS OANTRYIIII COMMON BLOCKS BARCONIIII ENTRY POINTS ROSCOEIIII	PROSPEAD PROSPEAD: EXTERNAL: CXTERNAL: INDWRO!::! COMMON BLOCKS FATER POSPEAD::!	POOTVEC: PROGRAM LENG: POTVEC:::: ENTY::::: ENTY: POINTS ROTVEC::::	SCHCKII PROGRAM LENGTI SCHCKIIIII SCHCKIIIII EXTERNALS INDWRLIIII COMMON BLOCKS ENTRY POINTS SCHCKIIIIII	SEARCH! PROGRAM LENGTH SEARCH!!! EXTERNALS IND/PL!!!! PI ATAN3!!!! PI ATAN3!!!! PI PEASERS!!! ON PEASERS!!! ON PEASERS!!! ON PEASERS!!! ON EASERCH!!! SI SEARCH!!! SI	SEARCHI PROGRAM L SEARCHI
	502	9 00	207	807	509

X HAG: 111			SETITLE				EXITIIII
SEPALLILI END::::::			GETOXDY::: PLOTPNT::: GETPNT:::: PLOTXP]::: PLOTYM]::: SETNAMX::: SETNAMY:::				S0R7::::
SUBVECTITE			SETNAMXIII				001111111
PLTFRM:::		END ::	PLOTYM1:11				SUBVECIII
EIIII GOTOALTIII EIIII PUTORAIIII CONCONZIII		OUTPTC:::: OUTPTS:::: ACGOER:::: RBAIEX:::: END:::::::	PLOTXP1111				CROSSIIIII INDWRDIIII
CREATEIIII		ACGOER1111	GETPNT	END111111	END		
CONCONIII	ENDITITI	0017751111	PLOTPNT	ACGDER1111	TRPLATEIII		CONCONTIT
ORBP111111 ATANZ11111 DS111 S	EDGE::::			/13/75 H 189 INPUTS:::: FOIV:::::: ACGOER:::: END!:::::	7/13/75 H 55 ALTF!!!!! ACGOER!!!! TRPLATE!!! END!!!!!!		COS1111111 END11111111
EXTERNALS INDUALITION DSLUTHIIII ORBP LOCLATIII DOTIIIIIII ATAN COMMON HLOCKS II 113 BASICOSIII ENTRY POINTS SEARCHIII	SEGPLT: 09/13/75 PROGRAM LENGTH SEGPLT::: 171 EXTERNALS PLOT::::: SYMBOL:::: ENTRY POINTS SEGPLT::::	G F 01	SETPLOT::: ISOPLOT:::	SETSCAL 09/13/75 PROGAM LENGTH SETSCAL:: 189 EXTERNALS OUTPISS::: INPUTS:::: ENTRY POINTS	SHEATH! PROGRAM LENG! SHEATH!!! EXTERNALS INDMPI!!! COMMON BLOCKS COMMON BLOCKS SHEATH!!!	SLDANGL 09/13/75 PROGRAM LENGTH SLDANGLIII 497 FXTERNAIC	SINITITI ELFITTITI COST SINITITI ASPECTITI ENDI COMMON BLOCKS
	210	112		212	213	*12	

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$\limin$ \text{StondLiii} \text{1.0} \\
\text{2.15} \text{StondLiii} \text{1.0} \\
\text{Ston
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EXPERIENCE ACGOERINIE ALOGIONIE FITTERINIE ALOGINIEN SOLVENIEN ATMOSINIE RBAREXINE ENDINNERS
COMMON BLOCKS
ATMOSNIEN & ATMOUPTIE 21 ALTODNIEN 119 ZHCHEXINE 1
ENTRY POINTS
SPONIEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPCULAR
69/13/75
PROGRAM LENGTH
SYCOLARII 79
EXTERNALS
INCWRLIII MIXERIIII SUBVECIIII EXTXIIIIII UNITVIIIII VECLINIIII NLOKOSIIIII ENDIIIIIII
SOLVAI::::: 1485
RYFONALS
RYDONSKI::: SYMINVII:: OUTPTC:::: MULT:::::: WRDISK:::: STOP:::::: END:::::::
COMMON RLOCKS
105::::::: 6
ENTRY POINTS
SOLVAI::::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SPECDP: 09/13/75

PROGRAM LENGTH
SPECDP::: 1239
ETFRANCES
ALOG:::::: EXP::::::: SQRT:::::: END:::::::
ALOG:::::: 6 ATMOST:::: 15 WRATE:::::
ENTRY POINTS
SPECOPI:::
                                                                                                                           | SOLZEN: 09/13/75
| PAGGALM LENGTH
| SOLZEN:: 68
| EXTEMALS
| COSI::::: SIN::::::: END:::::::
| COMMIND FLOKS
| ATWOLP::: 21 TIME:::::: 8
| ENTRY POINTS
| SOLZEN:::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENTRY POINTS 130 BASICOS::::
SPCULAR:::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SPECODI 09/13/75
PROGRAM LENGTH
SPECODIII 221
EXTERNALS
EXPITITITE ENDITITITI
                                                                                                                                                                                                                                                                                              10/01/75
                                                                                                                                                                                                                                                                                                         SPCMINITI 2598
EXTERNALS
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COMMON RIOCKS 12 CONCONZ!!! S CONCONIIII EXTERNALS
GRATATION DSADMPINI ENDINING
COMMON BLOCKS
ENTRY POINTS CCMMON PLOCKS
ATMOSTILL: 15 WRATEIIIII 159
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STORTISTS
EXTERNALS
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COMMON BLOCKS
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EXTERNALS
CONCONISTS
CONCONISTS PROGRAM LENGTH
SPASSIII 66
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ATYOSIIII ENDIIIIII
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CNTNIIII 11 ATMOUPIIII ENTRY POINTS
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PROGRAM LELGTH
STATUS::: 68
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OUTPTC::: END:::::::
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ENTRY POINTS
STATUS::: STOPRUN 09/13/75 PROGRAM LENGTH STOH: ::::: SAMASSIIII 230 558 228 526 227

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PROGRAM LENGTH
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QBNTRYIII SORTIIIIII EYESIIIIII POTSCLIIII ENDIIIIIIII
COMMON RLOCKS
ENTRY POINTS
STRIAGIII 5 STRIIIIII 5 STRIIIIII 3352 MGRIDIIIII 427 STRIIIIII 300 STRCTUR 09/13/75
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STACTURE:: 130
EXTERNALS
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III 130 BASICOS::: 5 CONCON:::: 12 CONCONZ::: 2
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SUPI4::: 123
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INDWRL::: XHITI:::! NEXT!!!!! INDWRD!!!! SUBVEC!!!! XMAG!!!!!! VECLIN!!!! END!!!!!!
COMMON RICCKS
III 202 BASICDS!!! 5 25 CONBB11111 INDWELLI: SUBIDITION SUBILITION OUTPTC:::: ENDISTRING COMMON RLOCKS
CONMANTE: 50 III 202 BASICOS::: 5
ENTRY POINTS
SUBILITIES PROGRAM LENGTH
SUBTRIBLE 237
EXTERALE
INSTRUMELITY INDURDITY REAREXITY SORTITY ENDITY IN
COMMON PLOCKS
CONSTRUMENTS
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SUBTRIBLE
SU 5 FORPARIIII ENTRY POINTS
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SUR2111111 PRAPEXITIE ENDITITITE
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SUR12:11:: 120
EXTERVALS SUA141111 EXTERNALS 540 142 238 533 237

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SUPERASSII 195
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SUB911111 493
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SUB911111 242 SUB4::: 09/13/75
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TARGASVIII 175
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II 113 BASICOSIII 5
ENTRY POINTS PROGRAM LENGTH TARMISII 144 EXPONDISII 145 INDMRLII SPLTGATIII FBCLTRIIII MNOPLSIIII SLNINTIII XMITIIIIII SVPEAKSIII NLOKOSIIII ALGGIOIIII ENDIIIIII COMMON PLOCKS OBNITATILI INDURDILLI LSENTHILLI TARGMISILI TARGMSVILI TARGMISILI INDURELLI XMITILLI MNOPESILLI FBCETRILLI RITEFILLI SINILLI RBAREXILLI ALOGIOLILI NEOKOSILLI CREATEILLI PUTTOPILLI ENDILLILLI COMMON BEOCKS TARGHTS 09/13/75
PROGRAM LENGTH
TAGATS::: 116
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COMMON BLOCKS ATARZIIII SORTIIIII SIMIIIIII ALOGIIIIII TANIIIIII ATANIIIII ENDIIIIII COMMON PLOCKS
GEOMOIN PLOCKS
ENTRY POINTS
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TARGHTS::: ENTRY POINTS ENTRY POINTS 113 BASICOSIII TARGS1: 09/13/75 PROGRAM LENGTH TARGS1:::: 252 EXTERNALS TAYLOR: 09/13/75 PROGRAM LENGTH TAHGMSV 09/13/75 PROGRAM LENGTH 09/13/75 PROGRAM LENGTH SYZYGYIII 265 EXTERNALS TAR651:111 TARGMISIII TAFGMSVIII 253 252 548 250 251

	SQRT11111 ENDIATION	BLANKC2111 804 CNSTN1111 11 PAPREG1111 5 HEIGHT1111 105	F PREDLOCIII RITEFIIII DSLNTHIIII PLTFRHIIII SUBVECIIII XMAGIIIIII DOTI::!!!! SEPAII:!!! F REMOVE!!! DSTROY!!! CREATE!!! PUTGRA!!! RADTRAN!!! SORT!!!!!! WERE!!!! XMIT!!!!! F CREATL!!!! LSLNTH!!!! PUTBOT!!!! XTARSHS!!! RITEZ!!!!! ALOG!O!!!! PUTGRM!!!! MEASERR!!! F MATSUB!!!! MATFLIP!!! MATMULT!!! END!!!!!!	WHEREILLI SUBVECTITI DSLNTHILL RITEFILLI XMAGILLILL DOTILLILL XMITLILLI CREATELLILL NLONDSILLI NEXTITLILL STOPILLI CREATLILLI RADTRANILL LSLNTHILL PUTROTILLI XHRSNSILL HEASERRILL DSXPNDILLI INDOREDILLI DSTROVILLI NSOLVELLILL JCOBLANILLI MATNURTILL MATHULTILLI FILTERILLI PUTTOPILLI ENDIZZIZI
EXTENDES ENTRY POINTS ENTRY POINTS TAYLORIIII 254 TERRHVI 09/13/75 PROGRAM LENGTH TERRHVIII 136 EXTERNALS FOLVIIIII ENDIIIIIIII TERRHVIIII ENDIIIIIIII	255 TEXKIII 09/13/75 PROGRAM LENGTH TEXKIIIII 209 EXTENALS ALCGIIIII EXPIIIIIII ENTRY POINTS TEXKIIIIII	PPOGRAM LENGTH TIWVARIII 114 EXTERNALS ECRN:::::: OUTPTC:::: COWWON PLOCKS BLANCT::: 1985 BLANK ENTRY POINTS TIWVARIII:	PROGRAM LENGTH TRACKIIII 914 EXTERNAL INDWALIIII NEXTIIIII REMO SSPHOIIII STOPIIIIIII REMO SSPHOIIII STOPIIIIIII REMO COMMON RLOCKS COMMON RLOCKS CONCONIIII 12 CONCONZIIII ENTRY POINTS TRACKIIIII TRACKXIIII	PROGRAM LENGTH PROGRAM LENGTH TRACKINII 1036 EXFERNALS INDWLIIII PLIFRHIIII DSPWRDIIII PUTORAIIII ALOGIOIIII PUTORAIIII

TRACKINIII TRCKINKIII TRACKINIII TRCKINKIII TRPLINIII 100/13/75 TRPLINIII 120 EXTERNALS STOPIIII ALOGIIIIII TRPLINIIII 226 EXTERNALS EXTERNALS FOLVIIII 226 EXTERNALS FOLVIIIII 226 EXTERNALS FOLVIIII 226 EXTERNALS FOLVIIII 226 EXTERNALS FOLVIIII 226 EXTERNALS COMMON RLOCKS TUMPALRIII 226 EXTERNALS COMMON RLOCKS TUMPALS FOLVIIII PUTORAIIII COMMON RLOCKS TUMPALS FOLVIIII 226 EXTERNALS COMMON RLOCKS TOWN RLOCKS TOW	S	END LILL CONCONTILL CO	CROSSILLII INDWRLIII 2 INTEFILLII 2	ATAN::::::		NI NIW WAS TITLE TO THE STATE OF THE STATE O
######################################	RANFILLI CROSSITI ATANITITI 12 CONCONZILI ZATELI OSLNTHILLI XMAGILILI RITEFILLI OSLNTHILLI NONOSCILI NEXTITILI	RANFILLI CROSSITI ATANITITI 12 CONCONZILI ZATELI OSLNTHILLI XMAGILILI RITEFILLI OSLNTHILLI NONOSCILI NEXTITILI			NI NOW THE STATE OF THE STATE O	

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PROGRAM LENGTH
PROGRAM LENGTH
WELCHILLIS 491
EXTERNALS
QANTWYILLI RITEZILLI INDWRLILLI XMITLILLI CREATELLI INDWRDILLI PUTBOTILLI PUTORALLI NLOKOSILLI OSTROYILLI
COMMON BLOCKS
III 115 BASICOSILL S CONCONILLI 12 CONCONZILLI Z
ENTRY POLITI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROGRAM LENGTH
PROGRAM LENGTH
WINDITIES 248
EXFERNALS
COOSSISSIS CROSSISSIS SUBVECTOR XMAGISTES UNITVICES DOTICINES REAREXIES SORTINGS EXPISSIS XMITSISSENTES
ENDISSES ENTRY POINTS
WINDITIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WHERE!! 09/13/75
PROGRAM LENGTH
WAFFEILI! S7
EXTERNLS
INDWALL!!! ORBP!!!!! CORTRAN!!! BLLSTIC!!! XMIT!!!!!! NLOKDS!!!! END!!!!!!
COMMON ALOKS
CONTO!! 12 CONCONZ!!! 2 !!! 113 BASICDS!!! 5
ENTRY POINTS
WHEPE!!!!
     12 CONCONZIII
     S CONCONIIII
                                                                                                                                                                                        VFUNC2: 09/13/75
PROGRAM LENGTH
VEUNC2::: 34
EXTERNALS
EXPENALS
EXPENALS
EXPENALS
ENTER POINTS
VFUNC2::::
ENTRY POINTS
VERIFYILL VERIFYXILL
                                                             PROGRAM LENGTH
VEUNCIIII 34
EXTERNALS
EXTERNALS
EXPENIES
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MOGIIII 09/13/75
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INDMELIII CREATLIIII RITEFIIII DSPWRDIIII NLOKDSIIII PUTDRMIIII ENDIIIIIII
COMMON BLOCKS
III BASICDSIII S CONCONIIII 12 CONCONZIII 2
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WOGIIIIIII S NI 3NXGIIII S NIBNXGIIII S NJ3NXGIIII 5 N13NXG1111 VOGOIII 09/13/75
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III BASICDSIII PROGRAM LENGTH
WONPILLINI 83
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TRPLINITI ENDITITI #0ND:::::: #08D:::::: 274 272 273 270 271

MONITIE 09/13/75
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WONTITIE 454
EXTENDES
EXTENDES
EXTENDED
TOWNSTALIS CRATLISS REPRESENTS
TOWNSTALIS CRATLISS REPRESENTS
TOWNSTALIS CRATLISS REPRESENTS
TOWNSTALISS
COMMON FLOCKS
ENTRY POINTS
WONTITES
WONTITES
WONTITES MOXIIII 09/13/75
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INDWRLIII CREATLIII RITEFIIII TRPLINIIII ALOGIIIIII EXPIIIIIII DSPWRDIIII NLOKOSIIII PUTDHMIIII ENDIIIIIII
COMPON BLOCKS
EXTERNALS
COMPON BLOCKS
EXTERNALS
COMPON PLOKES
EXTERNALS
EXTERNALS
COMPON PLOKES KMITIIIII OUTPTCIIII STOPIIIIII ENDIIIIIII COMMON BLOCKS
1051111111 6 LARGEIIIII 14470 5 NIBNXGIIII S NIBNXGIIII S NIBNXGIIII WOXCIII 09/13/75
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TRPLINIIII ENDIIIIIIII
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ENTRY POINTS
WOXCIIIII ENTRY POINTS 111 BASICUSIII COMMON BLOCKS
111 134 BASICDS111
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PROGRAM LENGTH
MOXPIIIII 33
EXTERNALS
TRPLINIIII ENDIIIIIII WADISK: 09/13/75
PROGRAM LENGTH
WADISK:::: 150
EXTERNALS MONPILLI WOX111111 278 275 276 279 277

XBETAIL 09/17/75
PROGRAM LENGTH
PROGRAM LENGTH
XARTALLIII 480
EXTEPHALS
INDWALLIII RITEFILLII NEXTILLIII RBAREXILLI SINIIIIILI SORTILLIII COSILLIIII EXPITILIII NLOKDSILII ENDILLIII
COMMON BLOCKS
COMMON BLOCKS
III 202 BASICOSILI 5 CONCONILLI 12 CONCONZILI 2 XFORMITIES GXT06Y:::: 6XT0CY:::: 6XT0CX:::: CXT0GY:::: CXT0CY:::: CXT06X:::: XYZGEOI 09/13/75
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WORDHILLS

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XFORM::::: 470
EXTERNALS
CACLSKI::: MATMULT::: XMIT::::: END:::::: XTHRSPS 09/13/75
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COUPTCIIII EXTIIIIII ENDIIIIII

286 CREATIIII 06/07/74

PROSAM LENGTH

CREATIIII 06/07/74

PROSEMILEI 06

ETEMALS

COMMON BLOCKS

ENTEWALS

COMMON BLOCKS

OFFICIALITY

ENTEWALS

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COMMON BLOCKS

OFFICIALITY

ENTEWALS

COMMON BLOCKS

OFFICIALITY

ENTEWALS

COMMON BLOCKS

OFFICIALITY

ENTEWALS

ENTE

291 DSTROTT 08/0774

DSTROTT 08/0774

DSTROTT 08/0777

DS

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NEXTIII 09/07/74
PROGRAM LENGTH
NEXTIIII 178
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OFTFLOIIII NLOKDSIIII GCREATIIII GFLOSTIIII GOSREDIIII GOSTRYIIII LOCKOSIIII ENDIIIIIIII
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COMMON RLOCKS
ENTRY POINTS
ENTRY POINTS
NEXTIIIII NEXTNLIIII PREVIIIIII PREVILIIII
                                                                                                                                                                                                                                                                                                                                      PROGRAM LENGTH
PROGRAM LENGTH
LSTSPTIII 141
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GFIFLOIII CREATLIII QDSREDIIII DSPWRDIIII KEYSOHTIII QFLDSTIIII DSTROYIIII ENDIIIIIII
ENTERNALS
GFIFLOIII CREATLIII QDSREDIIII DSPWRDIIII KEYSOHTIII QFLDSTIIII DSTROYIIII ENDIIIIIII
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296 LOCKFL! 08/07/74
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PROGRAM LENGTH
PROGRAM LENGTH
PUTORD::: 181
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LOCZ::::: QFIELD:::: QFLOST:::: ACGOER:::: GOSRED:::: PUTBEF:::: PUTBOT:::: END:::::: PUTDRMI 08/07/74
PROGPAM LENGTH
PROGPAM LENGTH
UPTORMITTI 95
EXTERNALS
OFTELDITI GERRORITI OFLOSTITII GGOBLKIIII GDSRYTIIII GDSTRYIIII ENDIIIIIII PUTAFT! 08/07/74
PROGRAM LENGTH
PROGRAM LENGTH
EXTERNALS
GFIELD!!!! QERROR!!!! QFLOST!!!! QGTZWD!!!! END!!!!!!
COWWON RLOCKS
11: 91
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PUTAFT!!!! PUTBEF!!!! PUTBOTI 08/07/74
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PUTBOTISS 140
EXTERNALS
COMMON PLCKS
IS 91
ENTRY POINTS
PUTBOTISS 1111
PUTBOTISS 1111
PUTBOTISS 1111
PUTBOTISS 1111
PUTBOTISS 1111 EXTERNALS
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COMMON RLOCKS
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307 QCEASEI 08/07/74

QCEASEIII 15

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GCEASEIIII

GCEASEIIII

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ENTRY POINTS

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909 ODRBAGI 08/07/74
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310 GOSREDI 08/07/74
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EXTERNALS
CCHASTIII GEBELDIIII GGBBLKIIII GDSRYTIIII GERRORIIII GFLDSTIIII GDSTRYIIII ENDIIIIIII
COMMON BLOCKS
GCRASTIII 91
ENTRY POINTS
GGCALKIIII QGDBLKI 08/07/74
PROGRAM LENGTH
GGGALKIIII 97
EXTERNALS
CFIELDIIII OCEASEIIII QORBAGIIII QDSREDIIII GFLOSTIIII QDSRYTIIII ENDIIIIIII
COMMON BLOCKS
111 91
ENTRY POINTS
GGGALKIIII GRBAGI 08/07/74
PROGRAM LENGTM
QGRRAGIIII 186
EXTERNALS
GERORTIII OF TELDIIII OF LOSTIIII XMITIIIII ENDIIIIIII
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111 91
ENTRY POINTS
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SETENALS

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COMMON BLOCKS ENTRY POINTS
OFIELDIIII OFLDSTIIII GGTZWDI 08/07/74
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OFTELDINI OZBLOKIII GFLDSTIII ENDIIIIII

SENTAY POINTS

GG77-0111

318 G1NTLI 106-05/77*

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GRATALII 1 06-07/74

PROGRAM LENGTH

GP72-0111

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EXTERNALS

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GRATALIII 158

EXTERNALS

GOMMON BLOCKS

EXTERNALS

GOMMON BLOCKS

GOMMON BLOCKS

EXTERNALS

GOMMON BLOCKS

GOMMON BLOCKS

EXTERNALS

GOMMON BLOCKS

GOMMON BLOCKS

GOMMON BLOCKS

EXTERNALS

GOMMON BLOCKS

GOMMON BLOCKS

GOMMON BLOCKS

EXTERNALS

GOMMON BLOCKS

BENEVOVEIII REMOVEIII

323 MIPOUT: 08/07/74

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ELFIIIIII 40
EXTERNALS
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DITHEFITI
EXTERNALS

WITHETITI ENDITITION

ENTRY POINTS

DITHEFITI DATEFI: ::::!!!!!!!

PROGRAM LENGTH

DATEFI::: 14

EXTERNALS

MDATE::!: END!!!!!!

DATEFI::: CROSSII IIIIIIIIII
PROGRAM LENGTH
CROSSIIII 77
EXTERNALS
SQRTIIIII ENDIIIIIII
CROSSIIIII CROSIIIIIII DOT!!!! !!!!!!!!!

PROGRAM LENGTH

DOT!!!!! 25

EXTERVALS

END!!!!!!

ENTRY POINTS

DOT!!!!!! ENTRY POINTS COUNDUTI:: 333 332 334 331 330 329

HEADIII IIIIIIIII HEADIII PERGRAM LENGTH
HEADIIIII 755
EXTERNALS
TOTALETIII ANDUCCIIII IFENDFIIII OLDATAIIII INPUTSIIII SECONDIIII DATEFIIIII RANFIIIIII OUTPTCIIII LSKIPIIIII
TITLEFIIII MAKUNITIII FDIVIIIII SUBHEADIII ENDOOCIIII EXITIIIIII ENDIIIIIII PA CONCONIIIII 12 HEDSAVIIII 3
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COMMON ROCKES
RACIONICI CHEKFILIII OLDATAIIII INPUTSIIII HEADIIIIII OUTPTCIIII COUNOUTIII ENDIIIIIII
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INTITIIII 24
ENTRY POINTS
INTITIIII JACOBII IIIIIIIII T86
LENGTH
JACOBIII: 786
EXTERNALS
XMITIIIIIII MATDIAGIII SORTI::III FDIVIIIII ENDIIIIII 12 KALLER: :::!!!!!!
PROGRAM LENGTH
KALLER::: 10
EXTERNALS
!::!!!!!! ENTRY POINTS JACOBIIIII 340 339 338 337 336

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OUTCOLI IIIIIIIII
PROGRAM LENGTH
OUTCOLIII 207
EXTERNALS
HEADIIIII TITLERIIII OUTPTCIIII LSKIPIIIII ENDIIIIIII
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BRASCONIIII 24 FRMATSIIII 26
ENTRY POINTS
OUTCOLIIII
                                                                                                                                                                                                                                                                                  PACBITAL HENGTH PROGRAM LENGTH PACAILTIII 31

EXTERNALS 11111111 ENTRY POINTS PACKILLIII BITXIIIIII
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XMIT!!!! END!!!!!!

COWNON ROCKS

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ENTRY POINTS

OUTSET!!!
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COMMON BLOCKS
BASCON1111 24
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EXTERNALS

INPUTCIFIE CHEKFILITI
FINANCE INTERVITY
FOR STANSFHILI 267

EXTERNALS

XMITGHILI 267

TANSFHILI 11111111

PROGRAM LENGTH

EXTERNALS

ENTRY POINTS

UNITVILITI

374 VECLINITI

STEPNALS

EXTERNALS

EXTERNAL

PART 2.2 - LIST OF ROUTINES CALLING A SPECIFIC SUBROUTINE

TITLE	CALLED BY	SUBBOUTINE	CALLED BY	SURROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SURBOUTINE	CALLED BY
							75 10017		BFFC0:1
			5.18 1:11		INTRE		1000		SE SPCHI
			SUBS		LOSCONI		SPLIGAT		
	FOIVILL				200 000		SVPEAKS		SEPECHI
	KALLERI		ומבפראו				VANGAAT		SYZYGY:
	DACHITE	AC05:11			18102				* VZGFOI
			BOUNCE		OFFSETI	PHENEL !			
	OF IELD!		DEDEPII		OPPTIMI		BOONCE		*******
BSINCI			FTHOUAD		0882111		Idonata		2000
	AMPREFI				PHOTOD:	4NLYT21			A 1 0 0 5 6 :
	DELABSI		COCO		PMASSFI		CHMIONE		ATHOSHI
	F 9 4 8 5 1 1		6 COO A S		1 102100	ASINIII			aTUPD::
	FACLTRI		Colocal		00001		RFIELDI		HUPST::
	NOISELL		HADMEG				BTUPD: 1		CHEMDII
	PTPRUPI		MODELTI				CONJUGI		CHEMHRI
	1151049		1119900		משונים ו		FF1 0:11		DEDEPII
	RFF1511		INI LEGO		100000		GFOOUAL		ELDENS!
. 00000			0PH2111				NOOLOG		GROSETI
102000	FBC: TO:		0114GE01		PICATT		MAGELTI		PFETCH!
			ROTVECE				MODEL T		TONOSUI
			SEPAIL		SPCMINI		NO TOOM		MODELTI
		ADRUMII			SPECOPI		NOVE BY		MODION
			GETMAPI		SURGIII		LOVE GO		PMASSII
ACGOERI		ADVANCE			5 4 2 4 6 4 1				PHASSE
			FILTERI		TFXK:::		OPPER		RADMEGI
	1000	ALFABET			TOPLINI		000000000000000000000000000000000000000		REFCOIL
	PL 1021				*0N1::		25.4111		DH07111
	HLLS LC		PLOTAXI		*** XOM	A SPECT :			SPCMINI
			PLTNIII	AL06101			SLUANGL		SPMASSI
		ALNLINI			ATMOS1:			ATMOSE	
	10000		HFETCH		FACLTRI		104018	000	GPIDONI
	22000	AL06111			FFL0:11		1164400	*****	
	EXPINE		ALNLINI		IOSONOI		HELICH	PAISIT	D. Th
	FILTER		ANDREFI		MODOLONS		MAGFITI		
	FITTER		ATMOSIL		PLOTAXI		MODELTI	1:1:47V	
	GETMAPI		CHEMEF		PLSTRII		MOVEBEI		113000
	FETCHI		CHEMHR		PITNIII		0882::1		STALE
	HADBOIL		CHXOFD		RADISII		PEFRCTI		SIME
	INCIN		CHXLOSI		SEARCHI		5424641	BACKSPI	
	IOSONOI		CHXSPCI		SPCMINI		TUMBLAI		POPPORT
	TATTAT.		COLLETT		TARGMSV	ATANZII			
	רטכר דאי		COMP311		TARGMTS		11117	95005	PI THE : 1
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			FACLTRI		DISCRIM				DEDEPII
			FFLOIII		SHEATHI		יוביים		GPDSFT1
	STISTAL		FITTER		TUMBLAI		00100		GPIDONE
	CHEATH		F7ET:11	AMBGNII			- Cance		MOVEBEI
	SPCMINI		HFETCHI		MLTSPLT		RADTRAN		PROPTYI
	STALEII		HADMEGE		- STAGNA				

PROWGE P		30	SUBDOUTINE	CALLED BY	SCHROUTINE	CALLED BY	SUPROUTINE	CALLED BY	SCHOOLING	CALLED DI
PROPRIES	BROUTINE	CALLED OF	2000							PREDLOC
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		00000	CHXIOSI			ETHZKAD		CETKODA		RFFLS71
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CLINTIST			CIPHERI					MINUNIA		VERIFY:
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	1721351	ATEGERIA		FACLTRE		I STOPE ST		1 2000		LOCLAXI
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PERCENT PERCENT PORTING PORT	SOUNCE !			RFFC011		MULTOAR		PLKINKI		STALEII
PROMPGI		1 44 1		BFFC02:		110188:1		POINTS		TIMBLA
PROWNEGE	BOUNDAI			DESDOTI		1119800		905L1ST		* TNC: 11
GROSETI COMP211 COMP311 PUNTITION		15dMOdd				OPBTIM:		RADGR::	1113000	
PURING P	STANGI					0882:11		RADMODS	1116027	. 0
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GETMAPI GETMAPI PROUPS: PROUPS		INTRP:	CONDO			POTSULI		AFF1S:1		
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CHEMGII CONTRAN PLIFRHI PEFECTI MELDIII DEBRISI CHEMGII CORTRAN PLIFRHI POTVECI PEFECTI POTVECI PUBBII DEBRISI CHEMGII CORTRAN PLIFRHI POTVECI POTVECI PUBBII DEBRISI PHONNSI AMPRETI SCAMMINI DELABSI CLOENSI AMPRETI SCAMMINI DELABSI CHEMDII POTVECI PUBBII DEBRISI CHEMDII POTVECI PUBBII DEBRISI CHEMDII POTVECI PUBBII DEBRISI CHEMDII POTVECI PUBBII DEBRISI CHEMDII POTVECI PUBBII DELABSI CHEMDII POTVECI PUBBII DEPINDI CHEMDII SCAMBII DEBRISI CHEMDII SCAMBII DEBRISI CHEMBII DELABSI CHEMBII DEBRISI CHEMBII DEBR		TITLINI	CONSETI			I CONSTO		I DUATE:		I I ON I M
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CONJUGIT SUPEAKS LAUNCH: CONJUGIT TOWNER! KALMAN! DELABS! XYGRM!! DESCRIM XYZGEO! DESCRIM DEPO!!! DEPO!!!	CHILONI			a Tubber		STREPII		HYDRO::		
TOWHER DEDEFIT TOWELRS PAGETTI PAGETTI DEPOSITI XYZGEO! XYZGEO! POSSVII DEPOSITI		CHEMEL		TON NO.		SVPEAKS		LAUNCHI		1103030
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SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SCHROOTINE	CALLED BY	SCHROUTINE	CALLED BY	SCHROUTINE	CALLED BY
	PLINE:		OUTRINE		*0x1:::		TIMVARE		BLKCHM:
DISPERS			PREDLOC	DSTROYS		EC#R111			ALLSTIC
	REF1S:1		STANCHI		ANVANCE		ATM0561		H COCKH
0011111	2115118		TRACKII		CHENDI		GB 100N:		BOUNCE
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	CLUTING		VERIFYE		FVPROCI		HYDPOGE		BSTANGI
	DISCRIM	OSPWRDI			FRCLTRI		PHCONSE		BTNEALL
	DRORBZI		ADVANCE		FFLD111		PROMPGI		6102011
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	TADMACH.		CHMEUTI		PAFOLOC		AMPREFI		CHEMERI
	HYDROIL		CLINTII		RADMODS		DELABS:		CHEMBII
	I GRAND:		DEDEPII		POPPOCI		FRABSII		CHEMHRI
	INSIDE		DEPINDS		REFRCTI		FACLTRI		CHEMOII
	LIMITSI		NI SCHIO		SFARCHI		GPADNE:		CHMEDTI
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	SLDANGL		MODELII	OTNEGLL			STREP11		CONSPCI
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	TRACKIN		PHOTOR:	DUSCATI			ADVANCE		CREATKI
	VENTEVI		POINTSI		INTRPII		ALFABET		CROSSII
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	ONSPEDI		PEF1S11		CHEMGII		4TW0561		DISCRIM
	ODSAYTE		SEARCHI		HIRUHII		ATHOSHI		DISPERS
	STOPHUN		STRCTUR		HYDROGI		A7F::::		0071111
DSLNTHI			TPACK: 1		PHCONSB		BEDGE		DRATEII
	ADVANCE		TPACKIN		PINTIL		BETAGTI		0808821
	DISCRIM		VERIEY:		DANORG		BFIELDI		DSADMP
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SUBROUTINE																																																									
CALLED BY	M: LT: 1	MILTUAR	11:1×42	NLOKALI	NLCKOSI	NLOKFLI	MOISELL	A COL VE		01.55	OLDATAI	ONEMGSI	::: 4840	OPRILAI	0892111	I ICCLIO	TST ITIO	ייים בייי	1	001351	E ILL	PEDEPII	PGROUPI	PHCONSR	PHEATER	I day I d		1001010	HOLOHA		PLHEAVE	PLINE	PIKTAKI	PIKSFG	PICTOX	PI STRII	I NOSL IO				TAN SAL	SINIO	POSCISI	POSSVII	POTSOLI	PPEDATA	PPEOLOC	1:100dd	Danoad	PROPINI	PTORCHI	PTPROPI	PUTAFTI	PUTBOTI	PUTDRMI	PUTORDI	OCEASEI
SCHROUTINE																																																									
CALLED BY	HYDROIL	HYDROGI	HYDEGII	TGRANDI	TANDEX	TAGO T	CONCOL		I Jallal	INSTOE	INTAPII	INVTRY	TN1:111	NO.	TONOL		10000	OCOBIAN	JULIAN	KALMANI	KUTTAII	LAUNCHI	LEKSPCI	THITSE	110001		Locads	LOCKFLI	LOCLAXI	LOSCONI	LSKIPII	I NINTH	STSDT	NACE TT.			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		N 1 1 0 1 1	101111	MATHULT		MATRANS	MCHARCT	MEASERR	MISTAKE	MIXERII	MLTPATH	MLTSPLT	IS THOOM	MNOPLSM	MNOPLSI	MODELII	MODELTI	MODEONE	MOVFBII	MOVFB21
SUBROUTINE																																																									
CALLED BY	DSTROYI	LONGXOU					1112110	0031141	DUSTUP	DYNPLOT	ECRD:::	EDGE 111	FLOFNST			E SECTION I	ביראוני	FOLMILL	EGHALL	ETHZHAD	EUL ANG 1	EUXFITE	FVPROCE	E V D T L T T			EXILERIE	EXTXIII	EYESIII	E211111	FRARS	FPC: TO:		1000		FILTERI	FILERI	FRCVOLI	FUZINCE	F 25 T 1 1 1	GENORBI	GEODUAI	GETMAPI	604:11	GRADNE 1	GPAV:::	GROSETI	GPIDONE	GRIDUPI	GRVECII	HOPARTI	HEAD111	HEFTCHI	HTBUR:	HPCHEMI	HT05:11	HYDMKGI
SUBBOUTINE																																																									

SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY
	TONGEN	FTHORAG			DINITE		11:4880		PHCONSA
	TAPI ATE		RETELDI		RADOUT		OPSTIME	GRVECII	
	1001 TM:		BI TNF 1		PATELLI		0882::1		GRUSETI
	TAPSTAT		SON THE STATE OF T		PFFC011		PLHEAVI	HOPARTI	
	TIMBI D		DEPOLLE		PEFCOII		PR03:11		DEBRISI
	UNITVI		GRIDONI		REFCOZI		SEPAIII	HEADIII	
	UPDATE		PPOMPGI		BEZONE 1		SFTSCAL		CEASEII
	VECLINE	EULANGI			HICATTI		SONICII		CHEKF IL
	VECSUM		088P111		SPCHINI		STREPII		COUNDUT
	VERIFYE		0882111		SPECOPI		TEPPHVI		
	VECNOTA	EUXFITS			SPECOGI		Tarseat		PISTAKE
	VFUNC2:		PROMPGI		TEXK:::		CALLA		מחובים בי
	WALDIII	EXITIII			VFUNC1 :	FILTERI			0017131
	*HEPE 11		CFASE:		VFUNC21		T T T T T T T T T T T T T T T T T T T		A PECPE
	AINO. II		CHEKF 1L		I I ON I I		MACHIN		NOSKEAD.
	WIPOUT		GROSETI			PITTER	******		TITLERI
	1110801		HEADILL		in land		SOUNTAIN	חובוכח:	EI DENE
	111090		1 S S S S S S S S S S S S S S S S S S S		7 HE W 1	FIFXAFD			TGRANDI
	111000		2110111	ENIENIE	CYTY		ROSREAD		PLHEAVE
	100		1100117		NOTSELL	FRCVOL:			STRCTUR
	200		AMAGNII	FXTFB11			REZONEI	HPCHEMI	
	HONIELL		ANLYTZI		ELDENSI	FUZINCE			PROMPGI
	MOXCIII		ATMOSII		PMASSFI		REFACTI	HT05111	
	MOXPIII		CHEMEFI	EXTXIII		F 2E T 1 1 1			DELABSI
	WOX1:::		CHEMHAI		CLINTI		CHXDEP		EXTENT
	WPDISK		CHMEDTI		FRARSII	- accorded	0.500.11		POINTE
	XAETAII		NO SAID		20101	- CHOUSE	ATKGENI		DEFECTI
	XFORM!!				PADISI	GFOQUAI		NYDARGI	
			DRATELL		PFF1511		INDEXII		MODELII
	X 7 7 5 5 0 1		DINEPII		SPCULAR		PROMPGI	HYDROIL	
	ZDRUMII		ELDENSI	EVESIII		GETDXDY			CHEMDII
	2710UT1		FXPINT		STRIAGE		PLHEAVE	HYDROGI	
ENDDOCI			£211111	£111111			PLKINKI		HIRUR:
	CHEKF IL		HEETCHI		DEDEPII		PLSIKII		PHOONSE
	ECPDIII		HYDROIL		E211111	60A1111	2, 72, 7.5	HYDROII	
	HEAD: 11		INITALI		DICATT		MLTPATH	IFFNDF	
	A S WIND CA		LONOSILI	6211111			REFLSTI		CHEKFIL
FNOFTLI			MODELTE		DEDEPII	GOTOALT			HEAD:::
	HODELII		MODION	FRABSII			DROPUSI		PREDATA
ENECHKI			MOVEB11		ARSORBI		SEARCHI	IGRANDI	
	GPIDONI		MOVFB21	FBCLTRI		GRADNE			EVESIII
	HYDRO11		MULTOAR		TARGMSV			INDEXII	11.514
	PROMPGI		1 1 1 1 1 1 1		STEGNAT		DRRPILL		MOVE BIT
410.	MEZONE!		- NUICO		1 1 2 2 2 2 2	GROSETI			PROMPGE
	CHEMARI		PHEATII	FDIVIII			ATKGENI	INDRHII	
EOLMTLS			PHOTODI		EULANGI	GRIDON:			HFETCHI
	CHEMHRI		PLHEAVE		HEADIII		ATRGENI	INDWRDI	
EORATII			DIASSII		140081	1001110	HTRUR!		A A K S A A
	CHEMDII		- LOCALA						

CALLED BY	GRDSET:	HFETCHI		DI KILIK	PI STRIL		MATIGEN		FILTER	1 10 10 N	TOACK		ATENCES		BOBBBB		FT! TFR!		11675911		2110110		DEBRISE		GETWAP:		FYESLI		BITEFIL	STIFVE		FVPROCE	INDARDI	LOCKFLI	MAGFIT!	MODELTI	NEXT:::	0011151	HOSELAU	AVECENT	100110		0505011	December	SASUES	FROUTII	HYDMRGI	1.000	*ODELT:	MOVEBRI	PHASSFI	
SUBPOUTINE			ISOPLOT					2.	2000				206144		MALLEMI			1000	KETSORI		KULIAI		LENSTE				111111		רורנייי		SUNCE	Locura								LOCLAXI												
CALLED BY	S.I.B.1411	SVPEAKS	TARGMSV	TARGMTS	TARGMIS	146511	N. YOUL	2000	UPDATE	VEHIPY	MALO::	WHEREI		TONI III		XHEIAII		CHEMOI		TEAD!		מינים מיני	וורואי			141111	SEISCAL		1001010		MIGGSTO	ביייוניי	RADMODS		HODELLI		POSREAD		ECR0:::	GETMAP	H	INDUNI	0058601	2000	ZDKOMII		- LANGE		100014	- CAPAC	FLOFNSI	
SUBROUTINE																	INITAL		INPUTCE					INPUTSI				INSIDE			INTRAIN					INITIAL		TOCHEKI								IONLERI		1080801				
CALLED BY		- HONING	MAGFITE	MEDSERR	HIPATH	MLTSPLT	MISPLSE	MYOPLSM	MNOPLSI	MODEL:	MODELT:	MODIONI	MOVEBLE	POVERZI	MIJE TOAR	NOISELL	OFFSETI	OUTLIST	PEDEPII	PGPOUP:	PHCONSR	PHIMPII	PH07001	PHOTOR	PMASSFI	PUSLIST	POSSVII	PREDLOC	PB04P61	DIDONALD	GINITI	RADMODS	RACMRGI	100048	1151049	TODE CO	00101	BFFC01:	BEFC021	RFFLSTN	REFLSTI	PEF1511	SCHCKII	SEABCHI	SEARCHI	SUNINT	SLNINTM	SPCULAR	SPLTGAT	STRIFIL	5081211	5081311
SUBBOUTINE																																																				
200	רשררבה	SLNINTE	SLNINTA	20-01-01-0		208131	S1183111	VANGOAT	TARREST	- XCAC+	2 4 2 4 2 4	10000			979071		PONANCE	200000			יייייייייייייייייייייייייייייייייייייי		10134.0	0446		T L SQUIA	TINE DE		CLUTING	1911 1101	0691401	MINISTO	DUSCATI	DUSTINI	DUSTUP	ELDENSI	EVPROC:	EXTENT	EXTESI	THAH ST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111		6041111	113000	SPIDONI	- COLOR	ומומוזו	HADMAG	HYDRO::	INTRP
	SCHROOTINE																INDER																																			
	CALLED BY	BETAGTI	BOUNCE	BTUP0:1	BURSTII	CHMEDTI	CLINT:	CLUTING	0.000	DELABSI	DISCRIM	DUSTUP	ELDENSI	EXTENTI	Extxiii	FRABSII	FACLTRI	FROUT: 1	FFLOIII	HIBURIT	HYDMRGI	HYDROLI	IGRANDI	INTRP:	INVIRVI	L AUNCH!	MLTPATH	MNOPLS1	MODELII	NOTON	NOISEII	PEDEPII	NS CONTRACT	1	יייייייייייייייייייייייייייייייייייייי	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DOTATA	PDONDG:	PTPROPI	OINITEE	RADMODS	RADMHGI	PA01511	REFLSTN	PEFLST1	REFRCTI	PFF1511	REZONET	POSPEAD	SCHCALL	174400	SLDANGL
	SUBROUTINE																																																			

. SURROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SLBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SURROUTINE	CALLED BY
	OTNITE		1 1 1 1 1 1 1		00.00				
	PADMEGE		NSOI VE		on Ind		FRCITE		1000
	RADTRAN		0010100						
	SEADCHT							ירטארי	
	SFARCHI				SPUCIENT				2024
	1000				NO DATE			ALUAUS:	
1002111		TOVATAN		10110	UPDATE				POVENCE
	PUTORDI		- 40 1000		0000		1004001		1 1 1 1 1 1 1 1
LOSCON			TRACKIN	W TC01 T	MET [311		THEORY		A T K G E K I
	HOPARTI	MATRANS		17.13.61	110011		LAUNCHI		200214
LSKIPII			KAI MAN	S IOUNA	0 10044		115021		0 1 1 1 0
	HEADILL		PPEDLOC	167.00.	TABGMIS		LOCKFLI		R145111
	OUTCOL !	WATSUB1		MS IDONA	21.044		W TPATH		BTNFW
	TITLERI		KALMAN:		TARGMTS		MLTSPLT		BTUPDII
LSLNTHI			TRACKII	PNOPLSI			MNOPLSI		BURSTII
	BURSTII	MCHAR!			TARGSII		MADPLSM		CLINTII
	CHEMDI		FROUTER	PODEL:			MODELII		CLUTING
	CHMEDTE		PCHARCT		BURSTII		MODELTI		CONSUGI
	HIBUDII		PLHEAVI		UPDATE		MOVEBRI		DISCHIM
	- Samori		PPEDATA	PODELTI			NLOKFLI		DUSCATI
	HYDRO:		CAEPROP		MODELII		NOISEII		DUSTINI
	1GPAND!		SETPLOT	MODION			OFFSETI		DUSTUPE
	2		SIBHEAD		MODEL:		OUTLIST		FVPPOCI
	POINTSI		TITLERI	PORDATA			INTOTIC		EXTENTI
	PADMODS	PCHARCT			POSSEAD		PHCONSR		EXTEBII
	DEFLSTI		DANPLOT	MOVFB11			PHOTOR:		FACLTRI
	PEF 15:1		PLTNIII		HIBUR:		PLKINKI		FFLD:::
	SEARCHI	POATEII		MOVFB21			PLTN:::		FILTERI
	TARGASA		DATEFII		HIBURII		POINTSI		604::11
	INGSI		PLTNIII		PHCONSP		POSLIST		HIRUR:
	T K D C K I	PEASERR		NSHIFT!			POSSAII		INTER
	NI KOMA		SEAPCHI		ALFABET		RAD'ARG1		INVTRYI
	VEKIPTI		TRACKII	FT I ME : 1			4401511		LAUNCHI
PAGFITI			TPACKIN		DTIMEFI		EDBBOC:		MAGFITI
TAKINET	PINGENI		VEHIFFI		PLTNIII		HEFLSTN		METSERB
				PULTI:			HEALST!		HIPALI
MATADO			2 1 2 2 2 3		SOLVAII		T		יון ארן
	Kal WAN			FULTOAK			110000		STAGON
	1 0 10 11				HEFTSIN		4. CONE :		MADELSM
MATOTAG			OF ABS	NEXI III			ST PACE		I S Table
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	JAC0811		DUSTUP		110101				10000
WATEL TO			FLOFIN				20000		2011
	ADVANCE		FRABCOO				201020		10 TO
	TRACKLI		Facution						
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PATINU			1108071		101000		TOACK		100100
	TAVATAM		- 0000		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		TOVOL		
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	ADVANCE		1041		100000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100000
	HYDROIL				01440				10000
	KALMANS		NOTOF		TOP OF THE PERSON				
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SUBHOUTINE	CALLED BY	SLAROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SURPOUTINE	CALLED BY	SUBROUTINE	CALLED BY
	PUASSFI	CABTIMI	HEPEII		SUBHEAD		PLTNIII		LISPRI
	POSSVII		111 9890		TIMORE	PLOTAX	25.07.11		MODEL : 1
	PTPROPI	0892111			WPDISKI	110101	DYNPLOT	PREVNE	LISPRIL
	RADMODS		DR0R821	OUTPISI	110011	10000	OUTLIST	PROJIII	
	I SOME OF		OUTLIST		LAUNCHE		PLHEAVE		DEDEPTI
	PEFCOIL		STOUTE		PLHEAVE		PLKINKI		POINTE
	REFLSTN	CUTLIST	- MTGTIO		PLOTAX	PLOTPNT			DINITI
	REF1S11	CUTPICE			PLSTRI		OUTLIST		REFRCTI
	SEARCHI		ATMOSGI		PLTN:::		PLKTAK		MOVFBII
	SEARCHI		CHEMGII		SFTSCAL		PLKSEGI		PROMPGI
	SLNINTM		DSADMP	OUTSETS			PLSTRII	PSECOND	FVPPOCI
	SPCULAR		FVPPOCE		STOUT	1000	ALFABET	PTORCHI	
	STRIFII		HFAD:::	OVERLAY			DANPLOT	PITAFF	DANAFOL
	SVPEAKS		HFETCHI		EVPROCE	PLOTYPI			PUTOKO
	TARGMSV		1908021	PACXIII	AUSCOE!		PLKINKI	PUTBOTI	
	TARGMIS		INDEXII		OUTLIST	PLSTRI			RUPSTII
	TAR6511		INI	PAUSELL			FR00111		LACT AND
	TRACKII		LISPRTI		115 4400	ירונייי	DISCRIM		FFLD::
	TRACKIN		LSKIP	ירשבייי	PROMPGI		SFARCHI		HIBURII
	VERIFY		MODELTI	PEDEPII			SEAPCHI		DYNON I
	WALDIII		MODIONI		BURSTII		TOPCKIN		LAUNCHI
	WHEREII		HOVEBII	. 010000	CHMEDTI		VERIFYI		MODEL 11
	1001		NCOKAL-	. 100051	DUSTINI	PMASSII			MODELTI
	VOX1111		OFFSETI	PHEATER			CHMEDTI		PEROID
	XRETAII		OLDATAI		PROMPGI		PMASSFI		PUTOHOI
NOISE !!			1110800	100101	CHMEDT	PMASSFI			RADMODS
NSOLVE			OUTCOLI	PHOTOR			DEDEPII		PADMAGE
	DROPB21		DOTENT		CHEMOL	10101	FRCI TRI		PFFLST1
AUMAFRI	THACKIN		PLSTRI	PINTIII			INTRPII		PFF1511
	PLTNIII		POTSOLI		PLINEII	POSLIST	PADMODS		TRACKII
OFFSETI			OFFICE	L'HE PA	FROUTEE	POSSVII			TPACKIN
CLOATAS			OMERHOR	PLINE			PADMODS		141414
	HEAD::		PADMHG:		PROMPGI	POTSOLI		PUTDAMI	
	141:11		0116611	PLKINK	FROUTER	PREDATA	1041416		FACLTRI
CNEMGSI	MAGFITI		ROOTTII	PLKSEG:			ROSREAD		FROUT:
111480			SETKORD		PLKINKI	PREDLOC			PTPRCPI
	0208821		SETPLOT	PLOTIII	AI FAHET		TPACKII		RACHODS
	ביייים ביייים		201 VX		DANAPLOT	PREVIII			RADISII
	SEARCHI		STATUSI		PLOTAXI		FROUTE		PEFISII

SUBROUTINE	CALLED BY	SURROUTINE	CALLED BY	SUBBOUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY
									CLINTII
	SEARCHI	CORRAGI			0.00000		ROSCOFI		FACLTRI
	TPACKII		GODBLK!		20000	OTNVIII			PLTPATH
	TPACKIN	COSREDI			OGCB! K!		MLTSPLT		WILL TOAR
	VERIFYE		DSADMPI		OGDB! K!		SPLTGAT		POSLIST
	11190		TANK OF CALL		06RBAG1	CPTZWD:			POSSVII
			STSRT		09TZWD1		DSTROYS		PADISII
			NEXTILL		0P12W01		REMOVE		HEFEST!
BUTOTAL	200		PUTORDI		REMOVE 1		*IPOUT:		11211
	FROUTER		ODRBAGI		WIPOUTS	GUAGEOI			SEACHI
	PLKINKI		96DALK :	GFLDST:			SPIDON		2000
	PTPROPI	ODSRYTI			CAEATE		בארמאופו		
PUTORAI			DSTROYI		DSTROY	GZBLOKI		MA35040	
	ATKGENI		PUTDRMS		TONDED .	ODEDDO	10.7100	4000	PL INE 11
	EVPROCE		COPBAGI				MISTAKE		ATUPO: 1
	S BOUT !!		OGCBLKI		10000	/	OBBDILL		CONJUGI
	FFLD111		060BLK1		1212411	/	0882111		DEPOIL
	LAUNCHE		CINILL		- 10 XO IN		OFRBORI		GRIDON!
	MLTPATH	GOSTRYI			N OKO SI	DRNTRY	/		PROPTYI
	BHCONSE		ONAKO ONAKO		PITAFT		ATKGENI	RANFILL	
			0.1		PUTROTI		BURST11		FFLDIII
	1000		- TOOLING		PUTDRMI		DISCRIM		HEAD::1
	517504		X 3000		PUTORDI		EVPRUCI		MNOPLS:
	DEELSTN	OFBDOB			OCREAT:		FROUTER		MNOPLSH
	DEFI ST		DSTROYE		ODRBAGI		FFLD:11		BHIVITI
	SFARCHI		NLOKOSI		OGCBLK1		HIBURII		KOSCOE
	SEARCHI		PUTAFTI		OGDALK:		LAUNCH:		HOSHEAD
	TRACKII		PUTDRMI		GGRBAGI		DUTTIN		SEADOLL
	TRACKIN		OCEASE		1042150		ASSES DE LA		TIMBLE
	UPDATE		ODSREDI		10100		10000	0475	
	VERIFYI		ODSRYTI		1087140		. 000010		CHEMEE
	MALDIII		OGCBLKI		100000		2000		CHEMHRI
PUTTOP			DGRBAGI	. 7 1000			PADMONG		CHEMOII
	AUPST11		REMOVE		OCREATI		PADISII		DRATEII
	TINGS IO	dr ieto:	- CACASO	QGDBLK:			PDPROC1		IOSONOI
	1001		TIN INC		PUTDRMI		PEFISII	RBAIEXI	
	SOUMONA		DSPWRDI		06CBLK1		POSCOE		יייייייייייייייייייייייייייייייייייייי
	RADISE		DSTROYI	GGRBAGI			HOSHEAD		101010
	PFF1511		DSXPNDI		OCKEATI		2021010		SETPLOT
	1426511		INDAROI	COMPA	ODBRAGE		TARGSTI	BRAREXE	
	TRACKIN		LISPRI	0817401			UPDATE		PARGNII
GCEASE			LOCKUSI		CREATE		WALDIII		AMPREF 1
	S A S S S S S S S S S S S S S S S S S S		1 575973		PUTAFTI	RADMRGI			ATMOSII
	OGOBLKI		NEXTILL		PUTBOTI		MODELII		PLINE
OCREATE			NLOKAL	OINITII		RADOUT			BURSI I
	CREATE		NLOKOSI		DEDEPII		MODELII		100000
	CREATXI		NLOKFLI		ELDENSI		HOVEB1		CHEMARI
	OSXPNO		PUTAFT			2404040			CHWEDT
	INDERO		PUTBOT		STRUTTER	241044	ROUNCE		CIPHERI
	NEXT I I		PUTDKMI						

SUBROUTINE CALLED BY	SUBROUTINE	CALLED BY	SUBSTORES	1000000				
-				FLOFNE	RIVITI			SEAPCHI
CONSPCI	RORUMII	200.00		FRARSII		ATKGENI		SEARCHI
0406911		ECRDIII		FACLTRI		HETAGTI		TRACKII
ORATELL		INDRMII		FILTERI		MEASERR	SETITLE	
DINEPII		ODSREDI		6041:11		REFLSTN		PLHEAVE
DUSTINE		ZORUMII		KALMANI		PEFLST1		PLKINKI
FACLTRE	REFCOIL			MEASERR		WALD:::		PLSTRII
FFLD:11		AMPREFI		MODELTI	ROOTTII		SETKORD	
HONE		CLUTING		HOVEBII		CIPHERI		ROSHEAD
TONLEKI		PTPROPI		NOISELL	ROTVECI		SETNAMX	
IOSONOI		BEFC011		PHOTORS		PLACAVI		מו אינייייייייייייייייייייייייייייייייייי
LOSCONI	REFC011			PLSTRII	SCHOKII			0 6701
MODELTS		CLUTING		PAASSFI			*********	173141
INCOUNT	REFCOZI			1000	SEARCH	0 4 0 4 0	25.128.1	DI HEAVE
HOVEHII		CLUTING			2000			DIKTNE
HOVEHOL	REFLSTN			110011	SEARCHA			DI STRII
NO156:1		PEF 1511		אנירטון	CENDONIA		TO IGT 32	
OFFSETI	REFLSTI			0.00	200000	9404911	20110	DUTLIST
i do de la companya d		HET IS I		CLAND	SFCONDI			PLHEAVE
101010	REFRCTI			1406611		CHEMGII	SFTSCAL	
PLOIAXI		11211		1000		FVPPOCI		OUTLIST
PLSIALI	REMOVE			10 VOL		HEAD:::	STNILL	
				VEDIEV		HYDROGI		ALFARET
10000						PPOWPGI		AMBGN11
STED STE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- INCO		REFACTI		ATMOSII
110004		TOVELLI		I I XO	SFGPLTI			RETAGTI
1101044		110011		KAFTAII		PLTN:11		HEIELDI
	940		PITETII		SEPAIII			PLINE !!
BEFCOLL		HYDROIL		CHMEDTE		AMPREFI		BSTANGI
PFFC021	BELLA			DEDEPII		BTUPD::		BTUPDII
256		PPEDATA		P & D M O D S		CLUTING		CIPHER
PF ZONF :	REZONE		RITEZII			DEDEPII		CLUTING
ROOTIE		HIBURII		BTUPD::		DISCRIM		CONTIGE
SPCHINI		PHCONSE		BURSTII		DRORB2:		DEDEPII
SUBIOLE	RH07111			CHEMEFI		ELDENSI		DF1.4851
5081111		ADVANCE		CHMEDTI		EULANGI		DPORHSI
SUB1311		BLLS71C		DEDEPII		FACLTRI		ETHZHAD
51183111	RICATT			DISCRIM		TOWNO.		ביים ביים
TARGS11		CHAIONI		DUSCATI		in in its		
TAPLINI	RITEALL			FRABSII		MODELII		212111
#RLD:::		ATKGENI		FFLD111		MODIONI		10V1704
ETND::		ELDENSI		INTRPII		0842:11		GEOGUAI
11:080		PLTFRMI		NOISELL		PHOTOD:		600
#11090M		RADARII		PHOONSE		Pursse		100000
#0N1:::	RITEFII			PADMODS		SINIO		100110
XAETAII		ARSORAL		PADISII		- INIO		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
RCSHODL		CHENDII		RCSMODL		KAUMKGI		100000
FFLDIII		CHEMHRI		SEARCHI		MANIOAM		- SHOWE
POSLIST		CHMEDTI		TRACKII		RCSMODL		1050001
POSSVII		CLINTII		UPDATE		PEFC011		11.00
*860:::		CLUTING		VERIFYI		REFCOZI		FAULES
						111111		-

CALLED BY	200000	PECETS.			ביניון	MICHALI	0886:11	1112800	PLTFRMI	RADARII	 2000	PAUTHAN	PAD1511	RAPROCI	DEFISI		- CO THE SEC.	SOLVAII	TRACKII	TRACKIN	TAPLINI	VERIFY	WPOTSKI		DILT. TET					NAHIHON	LAUNCHI	210011		MOVEBRI		HETCHI		HEAD:::		AMPREFI	ROUNCE	CHMEDTI	CLINTEE	CLUTING	DEDEP:1	DISCRIM	1294040	FLDENSI	EXTENTI	FRABS:	FACLTRI	FROUTE	GROSETI	HYDMKGI	HYDROLI	INTRP
SUBBOUTINE																								STOUTER		GITTOTS			חובל				STRIFII		STRIPRI		SUBHEAD		SUBVECE																	
CALLED BY	Dunger	1000			-DOSIGA	SHADAR	ODSPEDI	DISBYTI	OINITI	DIAGEOR	 Table Ho.	MANTONA	FA01S11	RESMODE	PEFCOLL	DEFECT		101	HE ZONE !	11:17:4	SLDANGL	SLNINTM	SPECOPI	SPLTGAT	STOHILL	STREPII	STOTO	2013	Cian	2003		1116605	SVPEAKS	SYZYGYI	TARGMSV	TEXKIII	TRACKII	UNITVII	VFUNC21	MALDIII	QVII	HON1::	XRETAII	XMAG:::	XYZGEOI		ATMOSGI		STOUTE		HFETCHI		NOISELL		ATKGENI	CORTRAN
SUBPOUTINE																																														SRMASSI		STALEII		STATUS		STOHIII		STOPIII		
CALLED BY		1 5 5 5 5 5 5	DECE	DELTIMI	0500::1	OISPERS	DAATEII	DINEPII	DINEGER		 FOLAIRE	EOLMTL1	ETHZRAD	1 0 NO 11 1				FFL0111	FUZINCE	F 2ET::1	GFOQUAL	6041:11	2000		COTOON			110011	HADAHOL	HYDROII	HYDPOIL	IOSONOI	JAC0811	LEKSPCI	LIMITSI	LOSCONI	MAGFITI	WEASERR	HLTPATH	MLTSPLT	MNOPLSI	MADOLSM	MODELII	MODELTI	NO TOOM	POVEBII	MOVERN	MILTOAR	OFFSETI	ONFMGS	OPRPILI	DESTINI	CP82111	PHOTODI	PLINE	
SURROUTINE																																																								
CALLED BY				1150414		ATMOSIL	FITTERI	SPCHINI		POTSOI :		ATMOSIL		RETAGT		ATMOST		B M O O	CHEMDII	CHEMINE	GROSETI	HFETCHI	PHOTODI		BOUNCE 1					CHEMOII		TAHGMIS		ARSINCI	AMBGN:1	ANLY721	ASPECTI	DIMOSG1	PETAGT!	BFIELD:	81AS:::	BLINE	BTUPD:	CHEMEFI	CHEMHRI	CHEMO:	CHMEDTI	CHMION	CHOLSKI	CHXDEPI	CIPHERI	CLINTII	COLLFII	COMP311	CONJUGI	CONSPCI
SCHROUTINE			30,046		SOLVEII				501 VX 1.1		 SOLZENI		SONICII		SPINIOS									SPCIII AB		Sperio		.000	37500		SPLIGAT		SORT:::																							
CALLED BY		MNOPLSI	MODELI	MODELTI	MODOLON	MOVEBIE	MOVEBRI	MULTOAR	NOTSFIL	110000	 OPBILMI	0482111	PHOTODI	DI KTNK		111111111111111111111111111111111111111	2	POINTS	POTSOLI	PROMPGI	OTNITE	01166601	000000	24040	10000	10000	100000	100111	HE + CO2 1	REFACTI	BNV::::	POTVECI	SFARCHI	SITEPII	SLDANGL	SOLOPPI	SOLZENI	SPLTGAT	STALEII	STREPII	SVDEAKS	SYZYGYI	1486511	THALPI	VERTEY	XAFTAII	XYZGFOI		0808821		CLINTII		TARGHIS		TARGMTS	
SUBROUTINE																																																SITEPLE		SLDANGL		SLNINT		SLNINTH		SOLCYCI

SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY	SUBROUTINE	CALLED BY
	MLTPATH	\$U86111		TRACKXI		UNPXIII			RDPROCI
	MODELII		SU83111		RDPROC1		GETMAPI	VEUNCII	
	1000	2099111	-	THADENH		ACCLINI			113001
	113616		MODELTI		ALGORIA				110000
	100100	SVEERES		INCH INA			0115110	VELINES.	2003111
	01010		CIEDRA	TONCEN	- Country		RTUPDE	-	HYDMRGI
	DAACCE	314305					TILLI		MODION
	POINTS		SEGDI TI	TD01 ATE			CLUTING		PADMRGI
	POSI 1ST			1.47	RETAGE		DEDEPII		5083111
	POSSVII		SOI VX : 1		RCSMODI		DELABSI	MORUMII	
	DINITI	SYZYGYI			SHEATHI		0808821		ECRDIII
	PADMODS		HYDROIL	TRPLINE			DUSTUP		POSRYTI
	PADMKG1	TANIIII			W06D111		ELDENSI		7DRUM: 1
	RADTRAN		ALFABET		WOGPIII		EXTFB11	WHERE !!	
	PAD1S11		8104011		#ONO#		EXTX111		DISCRIM
	PCSMODL.		MADPLSI		*OND:::		FRABSII		PHIND
	PEFC011		MNOPLSM		WOXCIII		FACLTRI		POSLIST
	PEFC021		MODELTI		WOXP:::		FROUT		POSSVII
	REFRCTI		HOVEHEI		WOX1111		GPADNE !		RADMODS
	PEF1511		PLKINKI	TRPSTRI			GROSETI		SEARCHI
	SCHCKII		51189111		PLSTR1:		HYDMBGI		TPACKII
	SEARCHI		SYZYGYI	TUMBLA			HYDRO::		TRACKIN
	SEARCHI	TARGMSV			RCSMODL		INTRPII		VERIFYI
	SLDANGL		TARGSII	UNITVII			MODELII	#INDIII	
	SPCULAR	TARGHTS			AMPREFI		MODELTI		IGRANDI
	STRIPRI		TARGS11		BOUNCE		MOVFB21	-IPOUT:	
	SUB1411	TARGHIS			CLINT:		NO15E:1		CHEMDII
	TPACKII		TARGSII		CLUTING		PGROUP:		EVPROCE
	TRACKIN	TAYLOR:			EXTENT		PMASSFI		FACLTRI
	VERIFYI		FUZINCE		EXTFB::		POINTSI		PODELII
	HIND:::	TERPHVI			EXTXIII		OINITII		OUTRINI
SUB10::			PLHEAVI		FACLTRI		RADTRAN		RADMODS
	SUB1211	TEXKILL			GROSETI		PEFRCTI		ROPROCI
	2089111		CHEMEFI		IGHANDI		POTVECI	111080	
SUB1111			DCHEMI		INTROIT		SCHCKII		1104014
	5081211		REZONE 1		LOCLAXI		SPCULAR		DEDEPTI
611013	3009111	TIMVARI			HODELTI		2081411		nenen.
1131000	MODEL		2000		28400		2	111000	
SUB1311			MOVERSI		PINE	VECSUM			PEDEPII
	MODELII	TITLERI			PMASSFI		ATKGENI	1001111	
SUB1411			CFASEII		POINTSI		BLLSTIC		DEPINDS
	WODEL:		HEADILL		POSLIST		CLINTII	HONDE	
SUB2111			MISTAKE		POSSVII		FBABSII		DEDEPII
	MODELII		OUTCOL:		REFRCTI		FACLTRI	HONDIII	
	MODELTI		OUTLIST		ROTVECI		HYDROIL		PEDEPII
2093111		TITLINI			SLOANGL		MANICAN	# CMI I I I	
	MODELTI		ROSKEAD		SPCULAN		RADISI		DEPINDI
200	SIIRALL	INACKII			TIME	VEDIEVE	KET 1311		FlixeTT:
SUB5111		TRACKIN			48.0111		RADARII		MODION
	SUBBILL		RADARII		#INDIII	VERIFYX			HOVEBIE

UBROUTINE	CALLED BY	SURROUTINE	CALLED BY	SUBBOUTINE	CALLED BY	SLAROUTINE	CALLED RV
	PHEATII		PHOTOD:				
dxc.			PHOTOR		HYDMRGI		SETPLOT
*OX1111	11000		PMASSFI		HYDROIS		STALE
	DEPINO		20101		INTRO		STOUTII
RRDISKI			- CAMORA				STREPII
	POTSOLI		PADTRAN		CORTAN		SUBHEAD
	SOLVAII		REFC011		KUTTAII		200000
1961411			REFCOZI		LAUNCHI		TAPGHIS
	- 5250		REFRCTI		LOCLAXI		TARGMIS
	FACLTRI		11211		MATDIAG		TARGS11
	PTPROPI		SCHOK		NI TOTAL		TRACKII
	REFCOIL		SEARCHI		MODELLI		TPACKIN
111044			SEARCHI		MODELTI		UPOATE
	AL TELLE		SFPA:11		MOVEBII		VERIFYI
	ATKGENI		STALE		MOVEBEI		*ALD::!
	BFTAGTI		SUB1411		MOTERIA		*HEBE ::
	PLL STIC		TRACKII		ORRPIII		* INDIE:
	BOUNCE		TPACKIN		0882:1:		XEODM:
	1104014		VERIFYI		OUTLIST	XTHRSHS	
	CHEMDE		#ALD:::		OUTSETI		SEARCHI
	CHEMHRI	XMITILL	- Inchila		PHCONSE		TPACKII
	CHMEDTE		ADVANCE		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TRACKIN
	CL INT::		ALTF111		PLTFRMI	x x 2 c c 0 .	VERIFYI
	CLUTING		AMPREFI		PLTNIII	1039714	PI INF 11
	050000		ATKGENI		POINTSI	ZDRUMII	
	DISCRIM		BLLSTIC		POSLIST		GETMAP
	0808821		BOUNDE		P055V11	2770071	
	DUSTUP		BURST::		PPEDATA		ATMOSII
	FLOENSI		CLINTII		PPEDLOC		
	FRANCI		CORTRAN		OCREATI		
	FROUTE		0514851		ODSPEDI		
	FFLOIII		DRORBZI		000000		
	GROSETI		DSADMP		OINITE		
	I TO I TO I		DSXPND		FADMODS		
			EVPROCE		PADMIGI		
	19RAND!		FRASSIL		RADOUT		
	INSIDE		FRCI TO:		NAUTUAN OACTOON		
	INTRPII		FROUTER		REFLOTA		
	FLTPATH		FFLOIII		REFI STI		
	HODELII		FILTER		PEFRCT:		
	17300		FUZINCE		PEFISII		
	NOISELL		GENORBI		ROSCOE 1		
	OFFSETI		GP055T1		SEADOL:		
	OPB2111		GRIDON		SFARCHI		
	PGROUPE		HFETCHI		SETKORD		

PART 2.3 - LIST OF ROUTINES CONTAINING A SPECIFIC COMMON

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ODDRALD
ODDRAL
COMMON BLCCK WITH LENGTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       202 202 202 202 201 30 91 91 91 91
                              COMMON BLOCK LITH LENGTH
                                                                                                                                                           113
                                                             ADVANCE
AMMBGN:
AMMBGN:
ATKGEN:
BETAGEN:
BETAGEN
           CALLED
          WITH LENGTH
                                                   Ξ
              BLOCK
                NOMEDO
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TH LENGTH CALLED BY	ELDERENTOPE ELDERENTOPE EXTENT: EXTENT: FBABGES FILL FILL FILL FILL FILL FILL FILL FIL	LAUNCH: MAGFITI MEASERR MLTPATH	MODELS MODELS MODELS MODELS MODELS MODELS	MULTOAR OFFSEI OUTRIN OUTRIN PRESEPI PROUPI PHIPPI	PLAINKI PLAFRAL PABASSI POINTSI
COMMON BLOCK WITH LENGTH					
CALLED BY	GROSETT INFETCHT INFO TO SOLCY CO SOLCY	STALE!! STALE!! STOUT!! SUBHEAD	A A M M M M M M M M M M M M M M M M M M	BIASTED BOUNCE BOUNCE BIAPPI BURSTI CHEMPI CLINIII	DEPENDENCE OF CARD OF
LENGTH	*		u n		
COMPON BLOCK WITH LENGTH	7 BASCON:		8 8451CDS		
1000					
	1113 1115 1115 1115 1130 1130 1130 1131 1131				
CALLED BY	TARROSSIS TARROSSIS TOWNELLS TOWNELLS TOWNELLS TOWNELLS TOWNELLS TARROSSIS TARROSSIS TARROSSIS TARROSSIS	ATMOS11 IONOSUI SPCMINI	FORAT::	CHEMD:: CHECT: OTNEP:: OTNEE:: EORATI: FOUTAL: PHOTOD: SPECOP:	ATMOSS: CHEMOSG: CHEMO:
LENGTH		110	1600	21	12
CCMMON BLOCK WITH LENGTH		ALTODNI	ARRAYS:	A THOST.	ATHOUP
CCMMON B		∢	m +	n	•

CALLED BY	INDEX :: I CHNDE X :: I CHNDE X :: I CHNDE X :: I CHND		H CHINE H CHIN	PLTABET TO SECTION SEC	
H LENGT	99		2500	* :	2 3
COMMON BLOCK WITH LENGTH	BL ANKC3		BL ANK CA	13 CALCOMP	CELORGI
COMMON	=		22	a ±	21 41
CALLED BY	# # # # # # # # # # # # # # # # # # #	ATMOSGI BEDGE:1 BEDGE:1 BOLINE:1 CHEMG:1 CHEMG:1	CAXSPCI CONSPCI CONSPCI CONSPCI CREDONI HIGHORI HIGHORI HYCKEL HY	PHOCKS PH	BELINE COUNCY COUNCY CONSPCI CONSPCI CONSPCI DEBURCI RESPONTE RESP
LENGTH		1985			* 000
COMMON BLOCK WITH LENGTH		9 BLANKCI			10 BLANKC2
CALLED BY		REFCOLL REFCOLL REFCOLL REFCSTA REFESTA REFROLL REFROLL REFROLL	REFERENCE OF SCHOOL OF SCH	SPCULAR SPLTGAT STOPRUN STRCTUR STRIAGI SUR12:1 SUR12:1 SUR14:1	SCUSSION SCU
HATE WOOD IN TOUR					

				COMMON BLOCK WITH LENGTH		CALLED BY	COMMON BLOCK WITH LENGTH	CALLED BY
COLLOD	COMMON BLOCK WITH LENGTH	LENGTH	רשררבת מו			SURIZE		MODELTS
11	CHEMBII	1,1	CHEMHR: ELDENS:			SUB3111		MULTOAR NOTSETT
5	2 H	198	BLKCHM! RATE:::	22 CONCON!	15	ADOVANCE ALTF111		000000000000000000000000000000000000000
6.	CHE XE 01	•	CHXDEP:			ATKSENI BFIELDI BIASIII BELETIC		PLANSELL
8	CNSTN1	Ξ	ATMOSG1 8EDGE11 8LINE11			B T T P P P P P P P P P P P P P P P P P		POSLIST
			BOUNDY: CHEMET: CHEMBIC CHEMBIC			CLUTING CLUTING CONTURN CONTRAN		RAPOLL ROSMODL REFCOLL
			E SECTION SECT			DECEMBET DESCRIPTION OF SCRIPTION OF SCRIPTI		PEFFECTS PROCESSORES
			GEOSUS GEOSUS GENERAL HOPARAL HOPARAL FERENAL			DUSTURI ELDENSI ETHRADO ENLANGI ENLANGI ENLANGI FBCLTRI FBCLTRI FBCLTRI FBCLTRI		SEARCHI SETARCHI STEP: SUDANGL SONIC: STALE: STALE:
			PLINE I PLINE I PROPTY I QUAGEOI REZONE I SRALASSI TIWARI			FIZINCE GENORBI GENORBI GRAVIII HEADIII INTRAIL		STOUTIII STROTUR STROTUR STROTIII TRACKIII TRACKIII TRACKIII TRACKIII
~	21 CONBB11	°S	COOKE 1 1 1 1 1 1 1 1 1			MAGELTT METABLE MENOPLST MENOPLST MOOPLST MOOPLST MOOPLST		FBLD:::

IY COMMON BLCCK WITH LENGTH CALLED BY	27 DEPOAT! 52							61 INDISIONS 16				29 ENERGY: 103					30 ENGOUT: 5				-	31 EVENTX! 41										32 FACTROI 2		EVPROCI	* ALGORD	35 GRODAD!		SUB3:::			34 FOSRATI 9	CHEMHRI	DINEPII				33 FRMAIS! 26	100100	
COMMON BLOCK WITH LENGTH CALLED BY	PGR0UP:	PLTFRMI	100000	of ALCO	15010	SI JOSE S	2000	TILIVID OF THE PROPERTY OF THE	HADAHGI	RADTRAN	R401511	RCSMODL	REFCOLI	REFC011	REFC02:	REFRCTI	REF1S11	ROSCOE	ROSAEAD	SEARCHI	SEARCHI	SLUANGL	2701010	all FORES	1.1818	SXARGVS	SYZYGYI	TARGS1:	TRACK:	TRACKIN	UPDATE	VERIFY	18603:		I I I NOM	11:1x0x	XBETAIL		CONIONI	DEBRISI	HOPART	HADDER	Bamona	CONTRNV			CONVATE		
CALLED BY COMMON		ASPECT	ATKGENI	BFIELD:	BIAS:::	BLLSTIC	BINEWII	BTUPD11	BURSTII	CHEMOS		THE DATE	10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CON THE .		- Table 1	DFI ABS	DISCRIM	DROPAZI	DUSCATI	DUSTINI	DUSTUPI	ELDENSI	ETHZRAD	EXTENT	FBABS11	FRCLIRE		FUZING	GENOBBI	604111	HT0S111	HYDMRGI	HYDRO::	ווממועו	LAUNCH		*2	NODE SE	KNOPLSM	MNOPLSI	MODELII	35		MULTOAR	56	OFFSETI	
COMMON BLOCK WITH LENGTH C	23 CONCON2 2																		3		J	3	J	J.								, 6	1	1			,		1	í	Š	ž.	i	1	í	Ī	Ž	0	

NOMMO	COMMON BLOCK WITH LENGTH	H LENGTH	CALLED BY	NCMMOD	COMMON BLOCK WITH LENGTH	H LENGTH	CALLED BY	COMMON	COMMON BLOCK WITH LENGTH	LENGTH	CALLED BY
			DEBRIS: EUXFITI HDPARTI PHEATII PROMPGI				PCHEM:: PHEATI: PINTI:: PROWDG:	ů,	N13NXG1	٠	DEDEP 11
	6E0MD11	-	CIPHER: HYDRO:: SYZYGY:	\$	TONOOL	•	ATMOSG: CMEMD:: ELDENS:				000000000000000000000000000000000000000
38	HEDSAVI	•	HE AD 111 ROSCOE 1	:	1081111	•	POTSOLI	5	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		E0XC:::
8	39 HEIGHT!	105	ATMOSG: BOUNDY: CHEMS:	\$	1171111	•	R R D I S K :				HYDMRG: MODEL:: MODELT:
			E C C C C C C C C C C C C C C C C C C C	*	LARGEII	14079	POTSOL: WRDISK:	25	PARAMS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATMOSGI BLINE: DEHRIS:
			HYDROII HYDROII PLHEAVI PROMPGI REZONE TIMVARI		LINK	~	CHEMG:: DEL TIM: HYDRO!: REZONE:				GEODUA GROSETI GRIDONI HYDROGI INDEXII
\$	н681011	3352	EVPROCI GROSETI GROSETI GRYECII	•	MAGLNK	'n	BFIELD: BKINE:: EKPROC: MASFIT::				PLINE VI PROMPGI PROPTYI PLAGEOI
			IGRANDI INORALI INOSIDE: INATASI PLHEAVI POTSOLI ATATUSI	•	MGR10:	124		\$ 53	PARHI 11	5 -	MOVFB1: MOVFB2: DYNPLOT ROSCOE:
7	41 IMAG:111	561	TAPSTAI				IGRAND: INSIDE: LINITS: PLHEAV:	88	PROSAVI	•	PREDATA
3	42 INTOAT!	ŝ	BEDGE 11				POTSOLI STRIAG: STRIPRI	99	PROSVVI	•	ROSCOE 1 ROSREAD

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BLOCK	COMMON BLOCK WITH LENGTH	CALLED BY	COMMON	COMMON BLOCK WITH LENGTH	ENGTH	CALLED BY	
100	•					ELDENSI	
		BLINEII	\$ 49	STACONI	203	STALETI	
PROPRTY							
		ALINE 11 DEBRIS:	\$ 59	STRIIII	300	POTSOLI	
		MOVFB1:				STRIAGI	
		PROPTY	1 99	TEMP111	418		
						BEDGEII	
PAPAEGI	•					PCHEMI	
		ATMOSG:				PHEATIN	
		BEDGETT				DECIMENT	
		BLINEI					
		T ONDOR	1 17	TESTRII	-		
		TO LE				BOOTT::	
		DEHRISI					
		EVPROCI			•		
		GROSETI		11174			
		GRIDONI				ATMOST A	
		HIBURII				SOLORBI	
		HYDROGE				SOLZENI	
		INDEXI				1100117	
		0121	. 67	NEDEDO.			
		PINFAVI			2	BLINEII	
		DI TNF 1				CHXDEP	
		PROMPGI				CHXSPCI	
		PROPTY				CONSPCI	
		REZONE				DERRISI	
		TIMVARI				DEPOIL	
						DEPONE	
DEZONN	N: 222					FKSPC	
		FVPROCE					
		GROSFT	1 02	WRATELL	159		
		. 200				CHMFOTE	
						DOATE	
						DINFDII	
						DINED	
SPECIFI	95					FORATII	
		OTNEHO				TATTAL	
		FOI ATO!				SPECIPE	
		EQLMTLI				SPECDGI	
SPECEFI	F: 36			ZHCHEX 1	-		
		CHEMEP				ATHOSII	
		CHEMGII				IONOSOI	
		INOTHE				SECRICA	
SPECOLI	11 12						
		CHEMOII					

PART 2.4 - LIST OF ROUTINES CALLED BY A SPECIFIC SUBROUTINE

ABSINCE	LENGTH	LENGTH OF ALL ROUTINES 6	NES 66 SORTIIIII							
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LENGTH PARSON PROPERTY PARSON	OF PLL HOUTINGS ATTHEST OF PLANTS DEPARTOR DEPARTOR	ABSTINCT CREATX	CCHE MO TO	C C C C C C C C C C C C C C C C C C C	CONTRACTOR OF CO	COLLEGE COLLEG	C 1 C C C C C C C C C C C C C C C C C C	00000 00000 00000 00000 00000 00000 0000	TOWNUS CONTUS CONTUS ECOLAIN INITAL INITA
ADVANCE	ADVANCETTI CREATETTI EXITITITI GDSREDITTI GGTZ-POTTI SIN:		OF ALL ROUTINES 10789 [11111111 ACGOER111 CREATINI ACGOER111 EXPLINITI FDIV.1111 LOCKOS.1111 MATFLIP.11 ODSSYTIII ODSTRY!!!! ODSTRYIII ODSTRY!!! SOLCYC.1111 XMAG!!!!! WBPUM:1111 XMAG!!!!!	ALOGOTTER	ALOGIO DSADMPIII MCHARDIII GFIELDIII SANFIIII SANFIIII	ALTFI DSCNTH: INDWRCL: NCOUSST: SONIC::	POPOLO PAR NO PO	BETAGT DSTROY III DONDSUIII GCEASEIII BORUMIIIII	BLLSTIC DUMP:::: OUCIAN:::: OCREAT:::: TRPLATE:::	COSTERNITE KALLERITE GORBAGITT ROYLERITE VECLINITE
ALFARET ALNLINI	ALFABETIII LENGTH	LENGTH OF ALL ROUTINES 73 ALFABETI:: COS::::::: END::::::: LENGTH OF ALL ROUTINES 1. ALNLIN:::: ALOG::::::	DF ALL ROUTINES 733 COS::::::: END::::::! MSHIFT:::: DF ALL ROUTINES 19 ALOG::::: END:::::::	MSHIFTILL	PL01:::::	PL07511111	SINITITI TANITITI	1 A A		
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0011157	LENGTH OUTLIST:: DATEF::: EXIT:::: CXTO:::: DUTCORCH::: OFLOST::: SECONO::::	OF ALL ROUTINES DOTINITION OF PULPACHINES MAKUNITION OUTPTCOOLUPINE OCCUPACHINE OCCUPACHIN	NES ACGOER!!! DSADMP!!!! HEAD!!!!!! MCHAR!!!!! QCEASE!!!!	ALFABET DSLNTHI IFENOFILL OCTARET SINIE	ALOGIO: DTIMEF:::: DNJWHL::: MDATE::::: QDRBAG::::: SQRT:::::	DUMPUZ INPUTCIII MSMIFTIII POSSESIII OBERRORIII	A MINON MINO	S R D P C C C C C C C C C C C C C C C C C C	COS NALLES PLOSTES PLOSTES SUBBRES SUB	CROSS LOCOSS LOCOST LOCOST PLOTS PLOTS PROBUM:

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PGROUP	PGC PC	11:1:1:1: CRE NLOKOS:::: OUT QFIELD:::: GFL	CREATE:::: OUTPTC:::: GFLDST::::: SQRT:::::	CREATXIIII PUTROTIIII QGCBLKIIII VECLINIIII	DSADMPIII QCEASEIII QGOBLKIIII	OCREAT:	END QDRBAG::::	INDWRL: 111 QDSRED: 111 QGTZWD: 111	1000	IOCHEKIIII GDSRYTIIII GZBLOKIIII
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	00000000000000000000000000000000000000	005RED:::	QDSRYT:::: RBAREX::::: XMAG:::::	ADSTRY::::: RDRUM:::::	GERRORIIII RITEAIIIII	OFIELD::::	SINITITI	06CRLK:::::	9608LK::::	0688461:1: STREP1111:
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	PMASSI:::: FITTER::::	OF ALL ROUTINES	ACGOERIII ACGOERIIII IONOSUIIII RATEIIIIII	ALOGIIIIII JULIANIIIII RBAREXIIII	ALOGIO::::	ATMOS:::::: MCHARI::::: SOLCYG:::::	COS1111111 NLOKDS1111 SOLORB1111	SOLVE::::	EXIT:::::	EXPILITION SPCMINITION
1 4 5 S S 4 4 5 S S 4 4 5 S S 4 4 5 S S 5 S 5	LENGTH PMASSF:::: COS:::::: EXTHS::::: COSSED:::: COSTRIBETE:::: COSTRED:::: COSTRED::: COSTRED:: COSTR	OF ALL ROUTINES CROSSITION CRE FOLVERINI FIT LOCLAXINI MCA ODSRYTIII OD ORERPORTIII RAI SOLZENIIII RAI	ACGOERTHI CROSTITIER FITTERIH MCTARITITI MCTARITITI SPCMINITI	ACOS INDWARD ILVERSON ACRESON PRAPEX SGRT	DESADMPITE TOTATE TOTATE OF TELD SURVECTION	DOUMPI 1000MPI 1000ME PMASSI 1116 RITEF	E NOIN E NOIN I ONOSU::: PROJ:::: SEPA::::	ETHANAL CULTANI OCEASE SINI WDRUMI	EXITOS EXITOS CAPLER OGRBAGO SOLCYCO XMAGO	EXP. IELD EXP. III CORRES SOLORBAN XMIT:
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GATABOD STORES THE STO	LENGTH POTSOL 1111 SORT 111111	PREDATALLE FOLVILLE	PREDLOCITE CREATLITI EXPITITI LOCKUS: III GDSRVTITI SOLVETTI	PROWDG:::: BROWDO'::: BROWDO'::: BROWDO'::: IND-WPL:::: GUASECO:::: \$70P:::::	LENGTH PROPTY!!!! ECRD!!!!!	PTOPCHIIII	PTPROPT COVP2: 1:11
OCCAREOR SEPARATION SE	H OF ALL ROUTINES	HOF ALL ROUTINES	111111111 ACR 111111111 ACR 1200551111 DOT 1500551111 MAT 1005787111 GEF 15005787111 SOR 15005787111 SOR 15005787111 SOR	H OF ALL ROUTINES CHODEPINITE ACG CHODEPINITE OEP IETERARDINI DEP IOCHEKINI DNE ODSHYTIME PHE ODSHYTIME ODS ODSHYTIME ODS	H OF ALL ROUTINES ENDITITIE AND OFIELDITI OF	•	H OF ALL ROUTINES ATAN2::::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2:::: ATAN2::: ATAN2:: ATAN2::: ATAN2::: ATAN2::: ATAN2::: ATAN2::: ATAN2::: ATAN2::: ATAN2::: ATAN2::
NEXTILLE DOSRYTILL RADIANTILL SINITE SUBVECTILL XMITH	ATANZIIIII SYMINVIII	ACGOERIIII IFENDFIIII	ACGOERIIII DOTIIIIIII MATHENSIII GERRORIIII RATEIIIII	ACGOERIII ACGOERIII CHXLOSIII DEPOIIII IONLEKIIII PHEATIIII QONTRYIII TRPLINIIII	ACOSITITI ENDDOCITITI OFLOSTITITI	F ALL ROUTINES 117	ABSINCIII ATMUSIIII CONJUGIIII EQRATIIIII
NLOKUS; 111 QUSTRY; 111 RANF!!; 111 SOLCYC; 111 TRNSFM; 111	COS::::::	BACKSP 1111 INPUTC 1111 REW INM 1111	ALOGIIIIII DSADMPIIII MCHARIIIII OFIELDIIII RHAREKIIII	CCCCSSPC CNASS	ALOGIIIII ETHZRADIII OBERRORIII		PEGENERAL STREET
OHBPILLI RATELLI SOLORHILLI TRPLATELLI	ENDITITION	CHEKFILIII INPUTSIIII SECONDIIII	ALOGIO:::: DSLNTH::: IND/MRL::: OFLOST:::: RDRUM:::: SORT:::::	ALOGUIII CONJUGIIII CONJUGIIII FAETIIII FAETIIII PLINEIIII PARAEKIIII RARAEKIIII RARAEKIIII	ASIN:::::: INDWPL::::		ACOSIIII CREATLIIII DSTROYIIII EXITIIIIIIIIIIII
CFIELD:::	MULTITITI	DATEFILLI LSKIPILLI SUBHEADILL	ALTFILLING DSPWRDITI TOCKEKILL GGCREKILL RHUZILLING TRPLATELLI	ASIN:	ATANZIIII IOCHEKIIII RBAREXIII		ALNLIN:
OUTPIC:::	OUTPIC::::	DTIMEFILLE MAKUNITILL TITLERILLE	ATMOSIIIII DSTROYIIII GONGSUIIII GGEASEIIII RNVIIIIIII	ATAN2: CCOS:::::::: CCOS:::::::::::::::::::::	BFIELD:::: KALLER!!!! RDQUM!!!!!		ALOGE CHEMQ::::: OTNEG:::::
PUTORALLII GGCBLKIIII RDRJMIIIII SONICITIIII VECLINIIII	RDDISKILL	ENDITITITE MCHARITITE TRADERSITE	BETAGT:::	BEDGE CREATL CREATL HOVEN COSON GORBER SECON MOXILL	MCIARIIII		ALOGIO::: CHMEDT:::: CROSI::::: DUMP::::::: INSIDE:::::
OCFASEI:11 0599LN1111 RHOZ:11:11 SPCMIN:1111 VECSUM:1111	SINIIIII	ENDDOC: !!!	BLLSTIC::: END:::::::::::::::::::::::::::::::::	PFTELD CROSSIIII INDEXIIIII MCHEHIIII OGRADATIIII	CROSSIIIII NLOKUSIIII SORTIIIIII		AMPRETITE CIPHER: III GEOFFITHE ELNENSITHE
DCPELTITION OGRBAGILIII SORTILIII WDRUM: IIII	SOLVXIIII	EXITELLEL	COSIIIIIII EXITIIIII COSREDIII OPTZWDIIII XMAGIIIIII	RLINETTITE CROSSITITE CROSSITITE INDERES NLOKUS OFFBAGITTE CROSSITITE CROSSIT	CROSITITI		ASINI::::: COLLF::::: DEPINO::::: FOIV::::::: :onosu:::::::

	NLGKDS::::	PUTPTC::::	PAUSEIIIII	PEDEPILLI	PHOTODIIII	PHOTORIEE	PMASS11:11	PMASSF 1:11	PREV	PREV::::::
	OF IFLD::::	OFLOST::::	GGCBLK1111 RADOUT1111	AGUALKIIII RADZETHIII RITEZIIII	RATE::::	OGHBAX: 111 RHAREX: 111	ADRUM: 1111	REFCOLLI	===	HII PEWOVEIIII
	SOLVETTI	SOLZENIII	SPCMIN	SPECOPILI	SPECDOILLI	SORTILILI	STATUSIES	STOPILITIE	=:	
	2770UT::::	W06111111	MONDIFFE	MONPILLILL	MONITION	MOXPILLI	WOXIIIIII	XBETALLL	:	
OINITIE	LENGTH	OF ALL ROUTINES	NES 3362							
	007	DSADMPILLE	DUMP 11111	ENDITIE	ETHERADIS	EXPILITION	FOIVILLE	INDWRD		INDWRLITT
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OINVIII	LENGTH	OF ALL ROUTINES	NES 120							
OUAGEO!	LENGTH QUAGEOLILI	ACOSIIIII AS	NES 172 ASINITITI	COS1111111	END1111111	SINITITI	SORTIIIII			
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	RADAR		ACGOER: 111	ACOS11111	ADVANCETT	ALOG11111	AL0610:1::	ALTFILLE		ASTNILLI
	CREATALLE	CROSSILLL	CROSTITITI	DOT:::::::	DSADMP	DSLNTHEEF	DSPWRD	DSTROV		DSKPND
	ELFIIIII	END::::::	EULANGIIII	EXITILIA	EXP: : : : : :	FOLVIIIII	FILTERITI	FITTERILL		GOTOALTIE
	INDAROLL	INDWPLIE	IOCHEK!!!!	IONOSOLIE	COBIANIE	JULIANIES	KALLERIII	KALMANIII		KUTTA::::
	PATSUBILL	MCHAPILLI	MEASFRA	NEXT	NLOKOSIIII	NSOL VE 111	OPRPILITI	ORRITM		OUTPIC
	PREDLOCISI	PUTBOTIII	PUTDRMI	PUTORAFILL	PUTTOP:::	QCEASE: 111	OCREAT::::	ODRRAGITT		QDSRED::::
	0057RV1111	OSFREDRESS	DANTERDITT	OFLDST1111	DANE	BATE	DRABEX	DOGRAKIII		DEMOVE
	RITEATITI	RITEFILLL	RITEZIIII	RNVIIII	SEARCHIIII	SEARCHIIII	SEPAILLILL	SINILI		SOLCYCIIII
	SOL VE I I I I I	SOL ZENIIII TRPLATEII:	SONICITITI	SPCMINI 1 1	VECSUMILLE	STOP !!!!!!	WDHUM ! ! ! !	SURVECITION		TRACKIIIII XMAGIIIIII
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	ATMOSILLE	AZF : : : : : :	BETAGTILL	HF IELDI !!!	RLLSTICIII	8TUPD:::::	CONJUGITT	CORTRANILL		COSTITUTE
	DUSTUBLE	CREATKILL	CROSSILLII	CROS11111	DOTITION S	DSADMPILL	DSPWRDIIII	DSTROY		DUMPILLI
	FITTERILL	GRAVIIII	HTOSILLI	INDWRDIES	INDWRL	INTRPILLE	10CHEK: 1:1	IONOSUE		JULIANIII
	KUTTAIIII	LOCFILIE	LOCKDS: 111	LOCLAXIIII	LSLNTHIIII	MATAODISE	MCHARITT	MIXERILLI		NEXT: 1111
	PUTTOP	OCEASEIIII	OCREATIII	ODRBAGILL	OOSREDIIII	005RYT:::	ODSTRYIII	OERPOR: :		OFTELDITI
	RADTRANIE	PADZETHILL	BANFILLI	RATE	BAREXIII	PCSHODI :::	BORUM	QZBLOK 111		BHOZ::::
	RITETHIN	RITEZHIN	RNV	SEPAILILL	SINITE	SOLCYCITT	SOLORBITIT	SOLVELLILL		SOLZENIII
		24111111		31 HELL 1 1 1 1 1	302161111			ועגרשונוויי	2	

	3 D M M G 1	** DOUT!	RADTRAN	1 E S I O S I I	RATEIII	RCSHOOL	10PR0C1
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WHERE !!!!!	DOCHECT CONTRACTOR CON	ENDITITIE	SEPALLILLI	ABSORBITE CREATLINI OSPWRO INTERNITION FORWATI FOLVI F	RBAPEXIIII	ACOS::::::: FDIV:::::::: GCEASE::::: GGOBLK:::::	DSTROY
WIPOUTIII	ALOGOMA:::	Exp: 111111	SININ	ACGOER CFEMD::::::::::::::::::::::::::::::::::::		ALTF: 1:1:11 INDWRD::::: QCREAT:::: QGRBAG:::: TRPLATE:::	OCCASE:::
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XMITILLIL	EXITAL EX	XMITILLILL	SURVECTITI	CELOGE CENTED TO THE TO		KALLER::::	10CHEK!!!! QDSRED!!!! QPTZWD!!!!
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	FOLVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		VECLINIE	ASINITE STATE STAT		MATADD:::: GERROR:::: XMIT::::	LOCKDS::::

REFCOIL	LENGTH	OF ALL ROUTINES	NES 10349							
	REFCO.	DSAUMPHING ODPBAGIIII OGRBAXIIII SOLZENIIII	ACGOER I	ALOGE ENDITE	ACHARIA MCHARIA ADSTRY	ATAN REXPAN DEFINATION ROLUMN ROLUMN RETAN ROLUMN RETA	ATANZ:	ATMOST INDERCLINI OUTPTC OFLOST SINILI	COMP2::::: IOCMEK!::: PAUSE::::: GGGBLK::::	COMP3::::
REFC011	LENGTH	OF ALL ROUTINES	NES 33070							
	ATMOSITIE CONJUGITE DSADMPITE	BFIELD::::	ACGOERIIII CHEMDIIIII CREATLIIII	CHE WHR III	CHEMOLINI CROSSILLI DIVEOLINI	CROS1::::	ALOGIOTITI CIPHERITII DEUEPITITI ELDENSTITI	COLLFI::::	COMPZ:::::	ATANZIIIII COMP3:1111 DRATE;;;;
	LOCFIIII	ETHZRADI:: INDRMI:::: LOCKOS::::	INDWRD::::	INDWRL IIII LSLNTHIIII	EXTFB::::: INTTAL:::: MATMULT:::	INSIDE::::	IOCHEKIIII MIXERIIIII PREVIIIII	TONOSCI.	JULIANITE NLOKDŠITI	KALLERIIII OUTPTC::::
	OCEASE:::	OCREAT OGR&AGIIII PRAKEXIIII SCHCKIIIIII	GGRBAKIIII GGRBAKIIII RDRUMIIIIII SEPAIIIII	00 SRED::::	ADSRYT:::: AINIT:::: REMOVE::::: SOLCYC::::	ODSTRY:::	0EHROR: 111 0Z9LOK: 111 RITEA: 1111 SOLVE! 1111 SYZYGY: 111	OFIELD:::: OBERROR::: RITEF:::: SOLZEN::::	GFLDST:::: RADOUT::::: RITEI:::::: SPCMIN::::: TRPLIN::::	GGCBLK:::: RADZETH::: RITEZ::::: SPECOP::::
	VECLINIII	VECSUMILIE	WORUMII	WIPOUT !!!!	WORDILLILL	WOGDIIIII	ZTT0UT::::	W06111111	MONON	NONP ::::
REPCOZI	REFCOZ:::: ATMOS::::: ATMOS:::::: DSTROY:::: INDWRD:::: INDWRD::::: INDWRD::::: INDWRD::::: INDWRD::::: INDWRD::::: INDWRD::::: INDWRD:::::: INDWRD::::: INDWRD:::::: INDWRD:::::: INDREGUVE:::: STRIP::::: WGBD::::::: WGBD::::::: WGBD:::::::	OF ALL ROUTINES CREATKILL CALE CALE CALE CALE CALE CALE CALE CA	ACGOERIII CRMDIIII CROSSIIII DINEGAIIII INITALIII MATHULTIII PRASSFIII OPTSWIIII OPTSWIIII WATTEALIIII PRASSFIIII OPTSWIIII WATTEALIIII OPTSWIIII	CROSSIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	CHEMON CHEMON CHEMON ELDENS COLL COCHEMON CHELD COFFICE COCHEMON CONTRACTOR C	CHAEDTHING CHAEDTHING ENDING FND 11 11 11 11 11 11 11 11 11 11 11 11 11	ALONG DO THE RESTREET OF THE R	COLLN COLLN COLLN FALLE COLPTC	CON LUG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ATANAMA CONTRACTOR COST AND CO
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110	HANATH	OF ALL ROLLTINES	NFS 35854							

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CHWEDTEF	ATANIIII DOCLETIIII EQLAIPIIII FITTERIIII HCHARKIIIII GERRORIIII OZRLORIIII SUGVECIIIII	CHEMONICS CHEMON
ASIN::::::::::::::::::::::::::::::::::::	ATANZ:::: CRATE::::: EQLMTL:::: FUZINC::::: HIXER::::::: HIXER::::::::::::::::::::::::::::::::::::	CCAMEONING CCAMEONING CCAMEONING CTAMEONING CTAMEONING CCAMEONING

	EXITION OF STATE OF S	EXPUNDING CONTRACT CO	PSLNTH LOCFII COUTPTC COUTPTC CONTRY CONTRY CONTRY CONTRY CONTRY CONTRY	FITTER	DSTROY:	DSXPND INCWRDING INCWRDING INCRUMENT PUTORMING OF LOST SINING SUBVECTOR	DUMPLII INDWALIIII HUHARIIII GGCBLKIIII SOLCYCIIII TRNSFMIIII	ELFIII 10CHEKIII 0CEASE 0CEASE 111 0GDBLKIIII 8AABEKIIII 17PLATEIIII	END::::::::::::::::::::::::::::::::::::	EULANG:::: UULTAN:::: UULTAN:::: UUCANACCI::: BROZ::::: SOLZEN:::: VECLIN::::
SEARCH 1	LENGTH AZFACHILL AZFACHILL DSAOHPILL CGCREATILL CGCREATILL SGRAGILL SGRAGIL	PETAGETTIES PETAGE	ACCOERTITION ACCORDANCE ACCORDAN	COCRTRAL DUMPNING NO COCRTRAL NO COCRTRAL NO COCRTRAL SINING COCRTRAL SINING COCRTRAL	DE COS	CREATE COLOR CREATE COLOR COLO	ALTFILL CREATXIIII CREATXIIII CONOSUIII OUTPTCIIII OFFICIIII OFFICIIII CNITY	CROSS	CROSILI CROSILI EXPIRITE PUTORA GGCBLK SON ICH	PATHOSI FOTVIER FOTVIER FOTOTO
SEGPLT:	SEGPLT:::	OF ALL ROUTINES EDGE:::::: EN	EDGE!!!!!! END!!!!!!	PLOTIIIII	SYMBOLIIII					
SETPLOT	SETPLOT:::	OF ALL ROUTINES ACGOERIIII EN	ACGOERIIII ENDIIIIIII	MCHARITIT	OUTPICIIII	OUTP151111	RBAIEXIIII	XMITITIE		
SETSCAL	SETSCAL::	OF ALL ROUTINES	NES 194 ACGOERIIII	ENDITITIE	FOLVIIIII	INPUTSIIII	0017751111			
SHEATHI	LENGTH SMEATHIII LOCKDSIIII OFIELDIIII	OF ALL ROUTINES 11:1:1:1:1:1 AC MCHARIIII AC OFLOSTIII GG XMAGIIIII XH	ACGOERIIII OUTPTCIIII GGCBLKIIII	ALTF111111 GCEASE1111 GGDBLKI111	DSADMP::::	DUMP:::::	END::::::	INDWRD::::	JOCHEK!!!! QDSTRY!!!! SQRT!!!!!!	KALLER:::: GERROR:::: TRPLATE:::
SLDANGL	LENGTH SCOANGLISS ENDISSISS QCREATISS XMITSSISS	OF ALL ROUTINES	ASPECTIFIT FOLVER OUS REPRORED TO THE OUS REPORT TO THE OUS REPORT TO THE OUS REPRORED TO THE OUS REPORT TO THE	ATANZEEEEE INDWRDEEEE QDSRYTEEE RDRUMEEEEE	COSTITUTE TOCHEK: 1:11 GOSTRY: 1:11 SIN: 1:11:11	CROSI::::	DOTITITITE LOCKOSITE QFIELDITE SUBVECITE	DSADMP	DUMPILITI OUTPTC::::	ELF1111111 QCEASE1111 OGOBLK:1111 XMAG1:1111
SLNINT	SCNINTNI STRUCTOR NCTARESTEES OF PROPERTIES	OF ALL ROUTINES	NES 2151 DSADMPITIT NLOKOSTITI GFLOSTITIT	DUMP111111 OUTPTCI111 GGCGLKIII	GCEASE : : : : : : : : : : : : : : : : : : :	INDUMED ::::	INDWRL	DOCHEK 111: QDSRED1111: QBERROP111	KALLERIIII QDSRYTIIII RDRUMIIIII	LOCKDS::::
SLNINTH	SLATHIII MCHARIIII	OF ALL ROUTINES	NES .2184 DSADMP::::	DUMPILIIII	END:::::::	INDERDITT	INDWRLIIII	10CHEK!!!!	KALLER: 111	LOCKDSIIII

	WORUMITTE	OF TELDIIII	OFLOSTIIII	OGCBLKIIII	9608LK1111	06HBA61111	OGRBAX::::	OBERROPILI	RDRUMIIIII	SORTIIIII
SOLCYCI	SOLCYCIII	-	OF ALL ROUTINES 31							
SCLORBI	SOLORBIIII	•	OSIIIIII ENDIIIII	SINITITI						
SOLVE	SOLVEIIII	OF ALL ROUTINES	INES 587 OUTPTC::::							
SCLVXII	SOLVXIEIT		1930	OUTPIC::::	RDOISKIIII	STOPILILI	SYMINVILLE WROISKILLE	WRDISKIIII	XMITITILL	
SOLZENI	SOLZENIIII		OF ALL ROUTINES 68 COSIIIIIII ENDIIIIIII SINIIIIII	SINILILILI						
SPCFINE	SPC41N1111 FITTER1111 OFLD511111 ZTTOUT1111	0	F ALL ROUTINES 7145. HITHITH ACGOERIH INDMRITH IONOSUTHIOGRERORIH GBERRORIH RATEIHHII	ALOG::::::	ALOGIO::::	ATMOS: ::::	COS11111111 NLOKOS1111 SOLORBITIT	SOLVE	EXITIIIII QERRORIIII SOLZENIIII	EXPILITION OF IELDITION
SPCULAR	SPCULARIII DOTIIIIII HTOSIIIIII OUTPTCIIII	OF ALL ROUTINES 111111111 ACC DSADMP1111 DU INDMRD1111 OU PROJITITE GE GGCBLK1111 GGE SURVECTITE UN	ACGOERIII DUMPIIIIII INDWRLIIII QCEASEIIII QGDBLKIIII	ACCS ELFIII IOCHEKIIII GGREATIIII	ASIN:	ETHERADIII LOCKDS:::: QDSRED:::: XMAG:::::	BFIELDIIII EXPILITION LOCLAXIIII ODSRYTIIII XMITIIIIII	COS111111111111111111111111111111111111	CROSS EXTX:::: MIXER::::	CROSIIIIII FDIVIIIIIII NLOKDSIIII OFIELDIIII
SPECOPI	SPECOP::::	-	ALOGITITI ENDITITI	ExPILITIO	SORTIIIII					
SPECDOI	SPECDOILLI		OF ALL ROUTINES 221							
SPLTGAT	LENGTH SPLTGATIII KALLERIIII QDSRYTIIII	OF ALL ROUTINES	MCHARIIII ACHARIIIII ACHARIIIII ACRAORIIII	COS!!!!!!!	DSADMPIIII NLOKDSIIII OFLDSTIIII	DOUTPTC.	ENDITE OCEASE	EXPOCREAT:	INDWRL	TOCHEK: 111 GDSRED: 111 GINVI: 1111
SRHASSI	LENGTH SRMASS:::: FITTER:::: OFLOST::::	OF ALL ROUTINES ACC ACC	ACGOERIIII IONOSUIIII RATEIIIIII	ALOG::::::	ALOGIO:::: KALLER::::	ATMOSIIIII MCHARIIIII SOLCYCIIII	COSIIIIIIII NLOKDSIIII SOLORBIIII	SOLVEILIII	EXITI:::::: GERROR::::: SOLZEN::::	EXP.: QFIELD::::
STATUS	STATUS: 111	LENGTH OF ALL ROUTINES USIIII ENDIIIIIII OUTPTCIIII	INES 68 OUTPTC::::							

STOH111	STOHILLILL	OF ALL ROUTINES	NES 29 SORTIIIII							
STOPRUN	STOPPUNIII OF IELDIIII	OF ALL ROUTINES	DSADMPILLE OBNTRYLELE	ENDITETET	SORTIIIII	KALLERIIII	MCHARIIII	OUTPTC:::1	ODSREDIIII	QERROR: : : :
STACTUR	STRCTUR: III ATMOS: IIII ETHPRAD: III OCHEK! III OUTPTC: III SEPA! IIII	BFIELDIIII ACC EXITITITITE EX TONOSULIII LUU PROJITITITE EX TONOSULIII DEC SINITITITI DEC SINITITITI DEC SINITITITI SOUS SURVECTITITI SOUS	ACGOER 1300 COSSILITION OF CONTRACT OF CON	ACCROSSI FOLVILL FALLERIII GGGREATIII VECLINIII	CRONLING CROSSIIN COCKDSIII COCKDSIII COCKDSIIII COCKE	ALOGO POR PORT PORT PORT PORT PORT PORT PORT	X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	ASINIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ATANIIII DUMPIIIII INDWRLIIII NEXTIIII REFRORIII STATUSIIII	ATANZIIII ENDIIIIII INSIDEIII NLOKDSIIII OFIELDIIII STOPIIIIIII
STR1A6.	LENGTH STRIAGIIII CROSSIIIII FITTERIIII ACLERIIII GGDALKIIII SOLCYCIIII	OF ALL ROUTINES CROSTITITE ACC CROSTITITE DOT METCHITITE LOC CREATITE OPF OGRAPHITE SOF	ACGOERIII DOGENDIIII LOCKDSIIII COCKDSIIII OORBAGIIII SOCKEIIII	DSADMP INDRMI INDRMI ISNITH ISNITH ISNITH ISNITH ISNITH ISNITH	ALOGINI DUMPINI DUMPINI MCHARIII GDSRYTIIII SOLYRYIIII	ALOGO ENDARLING INDWARLING HULTING RATE::::	E TAN IN STAN	ATAN2:::::::::::::::::::::::::::::::::::	ATMOSS: 1111 1000 100 100 100 100 100 100 100	COSIIIIII FDIVIIIIII JULIANIIII POTSOLIIIII STRIPRIIII
11/18/1	LENGTH STRIF ::::: HCHAR!:::: QFIELD::::	OF ALL ROUTINES IIIIIIIII DS. NLOKDSIIII OU	NES 1982 DSADMPILII OUTPTCIIII	OCEASE !!!!	END OCREATION OGRBAGION	INDWRD : : : : : : : : : : : : : : : : : : :	INOWRL 1111 QDSRED1111 QBERROR111	DOCHEK GDSRYTIII RDRUMIIII	WALLER !!!! QDSTRY!!!! SQRT!!!!!!	LOCKDS::::
STRIPRI	LENGTH STRIPRIIII	OF ALL ROUTI	NES 284 ENDITITIT	INSIDE	SORTIIIII	SUBVECIIII	XMAGIIIII			
SUBTOIL			AREXIII							
SUB1211	SUBILITIES LENGTH SUBIZITIES	OF ALL ROUTINES ENDITITITE RB. OF ALL ROUTINES ENDITITE IN	NES 36 RBAREX!!!! NES 192 INDWRL!!!	OUTPIC	RBAREXIII	SUB1011111	SUB11+++			
3081311	SUBTATION OF LOST NAME OF LOST	0F ALL ROUTINES 11:1:1:1:1:1 DS 0UTPTC:1:1: 0C	DSADMPILLI OCEASEILLI OCOBLKILLI	DUMPI I I I I I OCREATI I I I I OCREATI I I I I I I I I I I I I I I I I I I	ENDER PROPERTY OF THE PROPERTY	TWOWRD:	INDWAL!!!!	DOCHEK !!!!	KALLER!!!! GERROR!!!! SORT!!!!!	LOCKDS::::
\$U81411	LENGTH SUB1411111	•	F ALL ROUTINES 2205	DUMPILLILL	ENDITITIE	INDWRDILLI	INDWRLILL	10CHEK1111	KALLERITT	LOCKDSIIII

111 SORTITI		MALLERIIII DERRORIIII SORTIIIIII					111 IOCHEK1111 111 ODSRED1111			AHRGN CREATOT CREATOT CREATOT CREATOT CREATOT FECTOT HATHUL PARSENIES COGRESSION SPECTOT TREE
ADSRYTILLI RDRUMITELL		DOCHEK!!!!				TANITITI	INDWRL 1111			ALOGIO CHEATE CREATE CREATE COLMIL FABRIL FABRIL LISLNING COCREAT COCR
QDSRED::::		INDWRD::::				SUBITIFIE	EXPITETE OCREATION		TANITIEE	C C C C C C C C C C C C C C C C C C C
00R8AG::::		EXPIDENCE OBSREDITION WITHING				SUBIOIIIII	ENDITITI OCEASEIIII OGDBLKIIII		SORTILLILL	CONTROL CONTRO
9CHEAT : : : : :		ENDI- GDRBAG::::				SORTIIIII	DUMP OUTPTC:::		SINIIIIII	BACCOMPSION CONTRACTOR
OCEASE::::: OGOBLK:::::		DUMPILLI DOCREATILLI OCREATILLI VEUNCZILLI				RBAREXIIII	DSADMP IIII NLOKOSIIII QFLOSTIIII		END:::::::	ACCHPOSTER TO THE TENT OF THE
OUTPTC::::	VFUNCTITE	DSADMPIIII OCEASEIIII OGORLKIIII				ENDITITIE	NEXTILLI OFIELDILLI SORTI-		ATANZIIII	ABSORB COLLAND
NLOKDSIIII OFLDSTIIII WDRUMIIIII	EXPITITION	AC30ER1111 OUTPTC1111 GGCBLK1111 SUB6111111	NES 32 SORTILILL	NES 36	NES 134	F ALL ROUTINES 565 ACGOERIIII ALOGIIIIII	AMBGNIIII HCHARIIIII QERRORIIII	NES 235	NES 265 ATANIIIIII	ABSINC ALTINC CACSIII CACSIII CACSIII GONINI
OF TELD 1111	OF ALL ROUTINES	OF ALL ROUTINES 11.11.11.11.1 AC MCHAR11111 OU OFLDST1111 SU SUBSIIIII SU	OF ALL ROUTINES	OF ALL ROUTINES	OF ALL ROUTINES	OF ALL ROUTINES ACGOERIIII AL	OF ALL ROUTINES 111111111 AME LOCKOSIIII MCI GOSTAVIIII GEI RORUMIIIII SII	OF ALL ROUTINES	OF ALL ROUTINES	ASPECTOR ASPECTOR CASSSITION
MCHARITITI GERRORITITI SURVECTITI	LENGTH SUB2::::::	LENGTH SUR3:::::: LOCKUS::::: OFIELD:::::	LENGTH SUB4::::::	LENGTH SUBSILILII	LENGTH SUB6::::::	SUB911111	LENGTH SVPEAKSIII KALLERIIII GOSAYTIIII RBAREXIIII	SYMINVILLE	SYZYGYIIII	LENGTH TARGESVITE ASITALITIE COREATERITIE COREATERITIE COREATERITIE COREATERITIE INSIDE
	SUBZIII	SUB3111	SU84111	SUBSIII	\$U86111	\$189111	SVPEAKS	SYMINYS	SYZYBYI	TARGHS

TARGHTS	WOND TITE	VECLINIIII WONITHIIII	VECSUM::::	MOXIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WIPOUT::::	X MAGED	WITH IN	ZTT0UT:::::	MOS11111111	
	A MAN CONTRACTOR OF THE CONTRA	C C D C C C C C C C C C C C C C C C C C	ABSING CLV1110 CLV1110 CR051111 DTNE011111 GOA1111111 HINOSULI PMASSF11111111111111111111111111111111111	A PASSARA A PASS	A C C C C C C C C C C C C C C C C C C C	PACOS	ALNLIN CONEMD	ALOGALA DARATE:::::::::::::::::::::::::::::::::::	CREMOLOGIO CREMOLOGIO CREMOLOGIO CREMOLOGIO INDURA	A THE STATE OF THE
TARGH1 S	MORDITITI MORDITITI MAGGITTITI LENGTH TARGHISITI CREATKITITI	SURVECTIONS WOGDITTO TO THE STATE OF ALL ROUTINES INTERPRETATION OF ALL ROUTINES CLINITIES AT ASPECTION OF ALL ROUSES CROSSITION OF ALL ROUSE CROSSITION OF ALL ROUSE CROSS	272767:111 WOGP:1:11 ZTTOUT:111 NES 39406 ABSINC:111 ATAN:11111 CROSI:11111	MOGILIIIII MOGILIIIIII ABSORNIIII ATANZIIIII	TRPLIN 1111 WOND111111 ACGOERITT ATMOSTITITO COMPSITITIO	WONDTV::::	VECLINITE CONTROL CONT	WOXPIIII	MORUM:::::	XBETA:::: XBETA:::: AMBGN:::: CHMEOT:::: CREATL::: CREATL:::
	D D S T T T T T T T T T T T T T T T T T	D 1 N E P P P P P P P P P P P P P P P P P P	EXPECTION OF THE CONTROL OF THE CONT	EUWPHI HFETANI LUCITANI DNEXTINA DNEXTINA DDSTRY DDSTRY DDSTRY DDSTRY SPOCHTY	ELO ELO ELO ELO ELO ELO ELO ELO	ELFI EXTX: EXTX: LOCF: LOCF: OUTPTC: PUTAGO FIELD SEPACIO: MAND: M	END FINDS FOOKDS	EOLAIR EOLAIR HOUCCLAX HOUCCLAX BEDEPHING BECREPHING BECREPHING BEDANG SORTHING WONI	FOLMATCH INDEAN CONTROLL PRODUCTOR OCCENTED SCATUS	FORDATION OF STATE OF
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	PEDEPIL:11	PUTTOP::::	QCEASE 1111	OCHEATIIII OGRAAGIIII	0046461111	901NTS::::	ODSRYTIIII	00STRY1111	OEPROPIEL OPT/WDILL	OF IELD::::
	0958808111		RADOUT	RADTRANIII	RADZETHIII	RANFILLI	RATEILLI	RBAREXIIII	RORUMITE	PEFCOLLILI
	SEPALLILL		SLDANGLIII	SLNINT	SLNINTE	SOLCYCILL	SOLORBILLI	SOLVE	SOLZENIII	SPCMINITI
	TANIII	TARGHSVIII	TARGMTS::	TARGMISTE	TAPLINIII	UNITALLE	VECLINILLI	VECSUMILLI	WDRUM: 11:1	WIPOUT::::
	MORD : : : : : : XMAG : : : : : : : :	WOGDIIIII	MOGP111111 ZTT0UT1111	W061111111	HONDE	MONPILLI	#0v11111111	MOXPILLE:	MOXIIIII	XBETAIIIII
FAYLOR:	TAYLORIII	LENGTH OF ALL ROUTINES	INES 50							
ERPHV	LENGTH (TERPAVIIII		SF ALL ROUTINES 141	FOIVILLII						
EXKIII	LENGTH TEXKIIIIII	0	F ALL ROUTINES 209	ExPIIIIII	SGRTIIIII					
THVAR	LENGTH TIMVAR::::	OF ALL ROUTINES	ENDITITITE	ENDBOCIIII	10CHEK:111	OUTPICILLI	RDRUMIIIII	WDRUMIIIII		
PACKEE	LENGTH	OF ALL POUTINES	INES 17259							
	ATMOSTER	47F11111111	ACGOERIIII RFTAGTIIII	ACOS111111	ADVANCE 111	ALOG1:11:1	ALOGIO:::	ALTFILLI	CREATERER	CREATE: 111
	CREATKILL	CROSSIIIII	CROSILLILL	0071111111	DSADMPILLE	DSLNTH::::	DSPWRDIIII	OSTROY::::	DSXPND::::	DUMPILLEL
	ELF 1111111	_	EUL ANG 1111	EXITITIO	Exp: 111111	FOLVIIIII	FILTERILLI	FITTER::::	GRAVIIII	INDWRD:
	LOCIAXIIII	SINTHIES	MATAN	MATOTAR	MATELIPIE	MATMULTER	MATRANS	MATSUR	MCHARITI	MEASERRIII
	NEXTILLE		0A8P111111	ORHTIMILLI	OUTPIC	PLTFHM:::	PREDLOCIES	PUTROT::::	PUTDRMILL	PUTORALLI
	GCEASE 1111	OCPEATITI	00RBAG1111	005RED:111	QDSRYTIIII	00574Y1111	OERROR::::	OFIELDIII	OFLDST1111	DATE
	RBAPEXILLI		REMOVE	RHOZIIIII	RITEALLL	RITEFILL	RITEZIIII	RNV	SEPALLILLI	SINITION
	SOLCYC1111 TRNSFM1111	SOL ORBIIII TRPLATE !!!	SOLVEITITI	SOLZEN: 1:1	SONICI1111	SPCMINITION WDRUM 11111	WHEREITTI	XMAG111111	STREPILLE XMITILIE	XTHRSHS111
	211001111									
FRACKIN	TRACKINITI	OF ALL ROUTINES	INES 17600	ACOS111111	ADVANCE 1 1 1	AL0611111	AL 06101111	ALTFILLER	ASTN:11:11	ATANZIIII
	ATMOSILLL			BLLSTICIII	BORDERIII	CHOLSKIIII	CORTRANILI	COS:1111111	CREATEILL	CREATLIIII
	CREATX1111	ENDITITION	EUL ANG 1111	EXIT:::::	EXPLITI	FOIVILIE	FILTERIII	FITTER	GRAVIIIII	INDWRDI
	INDWALILL		IONOSOLILLI	JCOBIANIII	JULIANITI	KALLERITT	KALMANIII	KUTTALLE	LOCFILITI	LOCKDSIIII
	CHARITI	MFASFRR	NEXT	N OKOS : : :	NSOLVELLE	ORBPILLI	ORHTIMIT	OUTPIC	PLTFRMILL	PUTBOT::::
	PUTDPMILL		PUTTOPILLE	OCEASE : !!!	OCREATIIII	ODHBAGIIII	ODSREDIIII	QDSRYT:::	ODSTRYILLI	OF RROR: ::
	DADTOAN	BANFILLE	BATE	GGORLK 1111	POST BAG I I I	BHO7:1:1	RITEALLI	GPT ZWD1111	BNV LLILL	SEPALLILL
	SINITITI		SOLORBITI	SOLVE	SOLZENIIII	SONICITIES	SPCHINIII	SORTILITIE	STOP	STREP11111
	XTHRSHSIII	ZTTOUTIII	INPLATE : : :		AECLINITI	VECSORILLI		WALKE !!!!!		

TAPLINI	LENGTH TRPLINITIE		120	RBAREXIIII	ST0P111111					
TRPSTRI	LENGTH TRPSTRI:::	LENGTH OF ALL ROUTINES 231		FDIVILLI						
TUMBLRI	LENGTH TUMBLRIEE FOIV:::::	OF ALL ROUTI	ACGOER;;;; 10CHEK;;;; QDSRYT;;;; RANF;;;;;	ALTFIIIII AALLERIIII QOSTRYIIII RORUMIIIII	ATAN: LOCKDS::::	COSTITITI MATAUDITI OFIELDITI	CROSS: MCHAP!!!!!	DSADMP:::	DUMPILLI GCEASEILI GGOBLKILLI XMAGIELI	END::::::::: QCREAT::::: QGRBAG::::
UPDATE	UPDATERING AZFILITERING DSADVATILITERING COCKOSINI NEXTALINI NEXTA	OF ALL ROUTINES 1111111111 ACG PACKSP1111 CONS PACKSP1111 CONS PACKSP111 CONS PACKSP11 CONS PACKSP11 CONS PACKSP11 CONS PACKSP11 CONS PACKSP11 CONS	ACGOERIII CONSETTION CONSETTION DETROITION OFFSETTION OFFS OFFS OFFS OFFS OFFS OFFS OFFS OF	ACOS: 1111 DUMP: 1111 INDWRL: 1111 OUTPTUT OGERROR: 1110 OBERROR: 1110 O	AC OG C C C C C C C C C C C C C C C C C C	AL 0610 CREATL END: END: HIXER HIXER PUTBOT PUTBOT SIN: SIN: SAUM SAUM SAUM SAUM	ASINIIIII CREATIIIIII ENDFILIIII HONDSUIIII PUTORA POTORA SOCOT SOLOY TIPPLINIIII	CROSSICILIST CROSS	ATAN2:::: EXPON2:::: EXPON3:::: MADLCW1:::: MODICON	ATMOS::::: FD1 V::::::::::::::::::::::::::::::::::::
VERIFY	VERSTY III DATE TO THE TEXT III EXTT III EXTT III EXTT III ONS PERSTY III ONS PERSTY III SONITC IIII VECSUMIII		ACGOER A	ACOSILI COSTRANIII OSPUROIIII FITTERIIII FITTERIIII FITTERIIIII FITTERIIIII OGERRORIIII STODIIII	ACOS111111 COS1111111 DSTROY 11111 GRAV 111111 GRAV 111111 PUTBOT 11111 GF IELD 111111 STROP 111111111111111111111111111111111111	ALOGIO:!!! CREATE:!!! DSXPND:!!! INDMRD:!!! INDMRD:!!! CSCNTH!!! PUTDREM!!! SIN!!!!! SUBVEC!!!!	CREATLILIII CREATLILIII INDWR-LILIII INDWR-LILIII NOCARRIIII SOCGHKIIIII SOLOY	ASINIII CREAIXIIII 10CHEKIIII MEASERPIII MOODREKIIII RBAREKIIII	ATANZI CROSSI IONOSUIII IONOSUIII NEXTIIII OCREATIIII SOLVEIIII	ATMOSIIII CONSTITI JULIANIIII JULIANIIII OGRBAXIIII RROZIIIIIII VECLINIIIII
VFUNC1 :	VFUNC1:::	LENGTH OF ALL ROUTINES VFUNCIIIII ENDIIIIII EXPIIIIII	EXPILITION							
WFUNC2 :	LENGTH VFUNC2::::	LENGTH OF ALL ROUTINES 34	NES 34 EXPILITITI	SORTIIIII						
WALDS	MALDITITI ASINITITI COLLFITTI CEPINDITITI ELFITTI	OF ALL ROUTINES ***********************************	MES 35335 ABSINC:::: ATAN2:::::: COSTE:::::: EQLAIR:::: EZ:::::::::	ABSORB: CREATE::: CSANDP:::: EGGNTP::::: TBABS:::::	ACGOERIII GREATLIII CREATLIII GSPATIIIII FOIVIIII	ACOSIIII CREATXIIII CREATXIIII ETHERAVIIII FITTERIIII	ALNLING CRESHILL CARGENERS CROSS CRO	ALOGENOS CROSSISSISSISSISSISSISSISSISSISSISSISSISSI	ALOGIO: CHWEDT:::: DEDEP:::::: EXTER::::: HYGRO:::::	ALTF:::::: CIPHER:::: DELABS:::: ELDENS:::: EXTFB::::: INDRM::::? LOCKDS:::?

	PHOTODISS OCHEATISS OCHEATISS OCHEATISS PRITEZISS SPCMINS SPCM	LSLNTH PHOTOR::: GORBAG:::: GORBAG:::: RATE::::: RAV::::: TRPLIN::: WOG1::::	MATADDI DDSREDIII GDSREDIII GGTZWDIII RBAREX ROOTTIII TUMBLRIII	PHASSFIII POSSFIIII POSSFIIII POSSFIIII SCHCKIIIII SCHCKIIIII	PREVIOUS DESTRUCTION OF THE PREVIOUS DESTRUCTION OF TAXABLE PREVIOUS SEPACE TO SEPACE	MIXERI PROJETI OZEHORITET OZELOKITET SIN-TETET STOPI	NEXTI	NLOKDS PUTDRM OFLDST ORNTRY ITFA SOLORB::::	PUTORA :::: PUTORA :::: PUTORA :::: PUTORA :::: PUTORA ::::: PUTORA ::::: RADOUT :::: SOLVE ::::: SOLVE ::::: MORD :::::: MARG ::::::	PEDEP:::: OCEASE:::: OCGBALK:::: RADZETH::: RADZETH::: SOLZEN:::: XOLZEN:::: XMITI::::: XMITI::::: XMITI::::: XMITI::::: XMITI::::: XMITI:::::: XMITI::::: XMITI:::::: XMITI:::::: XMITI::::::: XMITI:::::: XMITI:::::: XMITI::::::: XMITI::::::: XMITI:::::::: XMITI:::::::: XMITI::::::::: XMITI:::::::::::::::::::::::::::::::::::
WHERE:	LENGTH MFRE LE1111 AZF 1: 1:111 END 1: 1:11 GCEASE 1: 1: GGD9LK 1: 1:1 SEPA 1: 1:11 STREP 1: 1:11	OF ALL ROUTINES 1111111 AC BETAGETITE BLE EULANGITET EX ULIANITET AB OCREATITET OD OCREATITET OD OCREATITET OD INTERPETATION OD SINITETET SOU	ACGOER; 12036 ACGOER; 131 BLLSTIC; 1 KALLER; 11 GORBAG; 11 GORBAG; 11 TRPLATE; 11	ACOSIIII CORTRANIII KUTIAIIIIII QOBERRORIIII SOLORBIIII	ALOGOS COSTOS CO	CALCOSO CALCOS	ALTF BOOTIII GRAVIIII REFRORIII SONICIIII XMAGIIIII	ASSING OS ADARS ADARS OS ADARS OS ADARS OS ADARS OS ADARS ADARS ADARS ADARS ADARS ADARS ADARS ADARS AD	DUMPILL CABTILL CABTILL CABTILL SORT::::::::::::::::::::::::::::::::::::	ATMOS::::::::::::::::::::::::::::::::::::
WINDIES	LENGTH WIND:::::	OF ALL ROUTINES	CROSSIIIII XMAGIIIIIII	CROSI	007::::::	ENDITITI	EXPILITI	FDIVILIII	RBAREX:11:1	SORTIIIII
W080111	WORDIIIII	OF ALL ROUTINES SENDITION PRAREXILLE	NES 59 RBAREXIIII							
111050	LENGTH WOGDIIIII	•	F ALL ROUTINES 196	RBAREXIIII	STOP::::::	TRPLINITI				
111490F	LENGTH WOGPILLILL	OF ALL ROUTI	NES 148 ENDITITIT	RBAREXIIII	STOPILILII	TRPLINIIII				
W061 :::	LENGTH WOGILLILL COCFILLILL XMITILLILL XMITILLILLILL	OF ALL ROUTINES	CREATLIII NLOKOSIIII OFLDSTIII	DSADMP::::	DSPWRD PUTDRMIII	DUMPIIIII OCEASE::::	ENDI::	INDWAL::::	JOCHEKIIII GDSRYTIIII SORTIIIII	MALLERIIII MOSTRYIIII MORUMIIIII
MONDE	LENGTH	OF ALL ROUTINES	F ALL ROUTINES 212	RBAPEX::::	ST0P111111	TRPLINITI				
	LENGTH	OF ALL ROUT!	NES 203	RBAREXIIII	STOPILILLI	TRPLINIIII				
	LENGTH WON1::::: TOCHEK!!!! QDSRYT!!!!	OF ALL ROUTINES IIIIIIIII ALL KALLERITI LO ODSTRYIIII DEI SORTIIIIII WOI	ALOGISSIST LOCE LOCE SERVICE OF THE PROPERTY O	CREATLIIII MCHARIIIII OFIELDIIII	DSADMP::::	05PWR01111 0UTPTC1111 060BLK1111	DUMPITETE DOCKBAXIIII	ENDI::::::	EXPISSISS QDRBAGISS RBAREXISS	INDWRLIE III ODSREDIE II
MCXC111	LENGTH	OF ALL ROUTINES	NES 159							

		ALOGII		PBAPEX1111	ST0P11111	TRPLINIIII				
a xox	WOXP : : : : :	OF ALL ROUTINES ALOGIIIIII EN	END1111111	PBAREXIIII	STOPILILLI	TRPLINIIII				
*0x1:::	LENGTH 10CHEK1111 00SRYTI111	OF ALL ROUTINES 1111111111 ALC KALLERI111 LOG GOSTRY1111 GER SORTI11111 ST	ALOGIIIIII LOCFIIIIII GERRORIIII	CREATLIII MCHARIIIII OFIELDIIII	DSADMP 1111 NLOKDS11111 WDRUM 11111	DSPWRD OUTPTC::::	DUMP111111 PUTORM11111 QGRBAX1111	ENDITE TELET	EXPILITION GONERAGITIES REAREXILLE	INDWRLIIII GDSREDIIII RDRUMIIIII
WRDISK	LENGTH WRDISK 1111	OF ALL ROUTINES	NES 150 OUTPTC::::	ST0P111111	XMITILLILL					
XBETAIL	LENGTH XBETA::::: COCF:::::: QOSRYT::::	OF ALL ROUTINES 2692 111111111 COS1111111 COCKOS1111 HCHAR11111 0DSTRY1111 GERROR1111 RDRUHI1111 RITEF11111	NES COSTITITIO MCHARITITI QERRORITITI	DSADMP	DUMP:::::	ENDUTPTC::::	EXPISE OCEASE IIII	INDWRL !!!!	TOCHEK!!!! QDRBAG!!!! QGRBAX!!!!	KALLER:111 GDSRED:1111 GBERROR:111
XFORM:	LENGTH XFORM:::::	OF ALL ROUTINES CHOLSKIIII ENG	NES 715 ENDITITIT	MATHULTEE	SORTIIIII	XMITILLIII				
XTHRSHS	LENGTH XTHPSHS::: OUTPIC::::	OF ALL ROUTINES 1111111111 DS/ PUTDRM1111 GCI 06CBLK1111 GGI	DSADMP1111 GCEASE1111 GGDBLK1111	DUMP111111 OCREATI111 OGRBAG1111	END:::::::	INDWRD::::	IOCHEKIIII QDSRYTIIII RDRUMIIIII	KALLER!!!! QDSTRY!!!! SQRT!!!!!	LOCKDS::::	MCHAR:::::
XYZGEOI	XYZGEOIIII	OF ALL ROUTINES ATANZIIIII COS	NES 1111 COS!!!!!!	ENDITITIE	SINILLILLI	SORTIIIII				
ZDRUMII	ZDRUMIIIII	OF ALL ROUTINES	NES 43 ENDDOC:::1	10CHEK: 1:1	RDRUMILLIL	WDRUM:::::				
2770071	ZTTOUTILL	OF ALL ROUTINES	NES 162 EXITILLILL	OUTPTC:::						
CREATE	CREATE:::: QCEASE::::	STATE ROUTINES STREET STATE OF OGREAGESTIFE OF	CREATXIIII QDRBAGIIII QGRBAXIIII	DSADMP1111 QDSRED1111 QGTZWD1111	DUMP111111 QOSRYT1111 QZBLOK1111	END::::::::::::::::::::::::::::::::::::	TOCHEK 1111 GERORIIII RDRUMIIIII	KALLER:::: OFIELD::::	MCHARITITE OFLOSTICE WDRUMITEE	OUTPTC::::
CREATXI	CREATX::::	OF ALL ROUTINES (11111:111 DS. ODPBAGIIII OBI	DSADMP1111 GDSRED1111 QBERROR111	DUMP11:111 QOSRYT:111 RORUM:1111	ENDITITITE GOSTRYIIII SORTIIIIII	10CHEK::::	KALLER::::	MCHARITITE OFLOSTITE	OUTPTC::::	OCEASE 1111 OGDBLK1111
DSADHP:	LENGTH DSADMP1111 GBERRORIII	IIIIIIIII ENE	NES 590 ENDITITITE SQRTITTE	IOCHEK::::	KALLERIII	MCHARIIII	OUTPICILL	ODSREDIIII	QERROR1111	OFIELDIIII
DSLNTHI	LENGTH DSLNTH:::	OF ALL ROUTINES	NES 37 ENDITITIT	OFIELDITI						

OSP#RO:	DSPWRD1111	OF ALL ROUTINES	NES 36 ENDITITIT	OFIELDIIII						
DSTROY	LENGTH DSTROYILL GEPRORILLS	OF ALL ROUTINES fifffiff DS GFIELDIFFF OF	DSADMPITIE OFLDSTIIII	ENDITITIES OPTZWD::::	TOCHEK 1111	KALLERIIII	SORTIIIII	WDRUMITTI	ODSRED::::	ODSRYT::::
DSXPND	LENGTH DSXPND1111 QCGEAT1111 QGR9AG1111	OF ALL ROUTINES	DSADMPIIII QDSHEDIIII QBERRORIII	DUMPILITIES ODSRYTILLE	ENDITE OD STRY !!!!	DECKER OF THE TELES	KALLERIIII OFIELDIIII	MCHARITITI OFLDST::::	OUTPTC::::	OCEASE::::
INDURO	LENGTH INDWHDIIII QCEASEIIII	OF ALL ROUTINES	DSADMPIIII ODRBAGIIII GGRBAXIIII	DUMP: 1:1:1 GDSRED: 1:1:1 GBERRORI: 1	ENDITITIO OOSRYTIIII RORUMIIIII	DOCHEKIIII ODSTRYIIII SOHTIIIIII	KALLERIII OERRORIIII WDRUMIIII	LOCKDS::::	MCMARIIIII OFLOSTIIII	OUTPTC:::
LOCKDS1	LOCKDS::::	OF ALL ROUTINES	NES 62 END::::::	OFIELDIIII	OFLOSTIIII					
LISPRT	LISPATITITI DESTRYTILITITI SOSTRYTITITI	OF ALL ROUTINES 111111111 DS. NLOKDS1111 OU. QEPRORIIII OF	DSADMP:::: DSADMP:::: OUTPTC:::: AFIELD::::	DUMP PREVILLI	PREVNL:	10CHEK: 111 QCEASE: 111 QGDBLK: 111	KALLER!!!! GCREAT!!!!	COCKOS1:111 ODPBAG1:11 OGRBAX:11:1	MCMARITITE ODSREDITITE OBERRORITI	NEXT:::::
LGCKFLI	LOCKFL:::: NLOKDS::::	OF ALL ROUTINES OUTPICITITE OCE OGCOLKIIII OGE	DSADMP::::	DUMPILITI OCREATIIII OGRBAGIIII	ENO::00R846::::	10CHEK1111 00SRED1111 08ERROR111	KALLER::::	LOCKDS::::: QDSTRY::::: SQRT::::::	MCHARIIII OERRORIIII WDRUMIIIII	NEXTILLE OFIELDILLI XMITILLI
LSLNTHI	LENGTH	OF ALL ROUTINES	ENDITITITE	OFIELDIIII						
L\$75#71	LSTSHTIIII MCHAPIIIII SQRTIIIII	OF ALL ROUTINES IIIIIIIII CRE OUTPTCIIII ODS WDRUMIIIII XH)	CREATLIIII	DSADMPILLI	OSPWRD::::	DSTROYILL	ENDITITION OF LOST !!!!	IOCHEK::::	KALLER::::	KEYSORT:::
NEXTIII	LENGTH NEXT:::::: OUTPTC:::::	OF ALL ROUTINES 1111111111 051 0CEASE1111 0CF	OSADMPILII OCREATILII OGRBAGIIII	DUMPILITI ODRBAGIIII OGRBAXIIII	END:::::::	10CHEK 1111 GDSRYT1111 RDRUM 1111	KALLERIIII QDSTRYIII SQRTIIIIII	LOCKDS::::	MCHARIIIII OFTELDIIII	NLOKDS::::
NLOKAL!	LENGTH	OF ALL ROUTINES	ENDITITITE	OUTPICIIII	OF IELDIIII	OFLDSTIIII	STOP ! ! ! ! !			
NLOKOSI	LENGTH NLOKOS::::	OF ALL ROUTINES	ENDITITITE	KALLERIIII	MCHAPIFFF	OUTPICEELE	GERROR: 111	OFIELDINI	OFLDSTIIII	CBERRORIII
NLOKFLE	LENGTH	OF ALL ROUTINES	DSADMP1111	DUMPILLILL	ENDITITION	IOCHEKIIII	KALLERIIII	LOCKDS1111	MCHARIIII	NEXTILLL

	MLOKOSIIIL GFLOSTIIII	00TPTC::::	QCEASE::::	GCREAT!!!!	CORRAGITII	GOSRED::::	GDSRYT::::	SGRT !!!!	QERRUR::::	OF JELUSSES
PUTAFTE	LENGTH PUTAFT:::: QCEASE::::	OF ALL ROUTINES 1111111111 CRE OCREATIIII ODE	CREATXIIII ODRBAGIIII OGRBAXIIII	DSADMP1111 QDS4ED:111	ODSRYTILLI ODSRYTILLI OZALOKILLI	ENDITITIO ODSTRYILL OBERRORILL	10CHEK1111 GENROR1111 RURUM11111	KALLER::::	MCHARIESTS OFLOSTISSE WORUMSESS	OUTPTC:::: OGCBLK::::
PUTSOT	LENGTH PUTAOTIES GCEASESSES GGGALKESS	OF ALL ROUTINES	CREATXIIII GOPBAGIIII GGRBAXIIII	UDSREDITITE GOTZWDITTE	00MP111111 00SRYT1111 02ALOK1111	END::::::::::::::::::::::::::::::::::::	TOCHEK DEBRORIIII RDRUMIIIII	KALLERIIII OF JELD: 111	MCHARIIIII OFLDSTIIII	OUTPTC:::: GGCBLK::::
PUTORM	LENGTH PUTORM::::	OF ALL ROUTINES	NES 1039 OSADMPITII GOSRYTIIII	OUMPILLE ODSTRYILLE XMITTER	END::::	JOCHEKIIII OF IELDIIII	KALLERIIII	MCHARIIII	OUTPTC::::	OCEASE: 111
PUTORDI	LENGTH PUTOHD1111 MCHARITITI GERRORITITI RDRUHITITI	OF ALL ROUTINES 111111111 ACC OUTPTC!!!! PUT OFILO!!!! OFI	ACGOERIIII PUTBEFIIII OFLOSTIII	CREATX::::	DSADMP1111 OCEASE1111 OGDBLK1111	00000000000000000000000000000000000000	END::::::::::::::::::::::::::::::::::::	TOCHEK!!!!	KALLER!!!! QDSRYT!!!! QZBLOK!!!!	LOC2:::::: CDSTRY::::: GBERROF:::
OCEASEI	LENGTH OCEASEIIII OERRORIIII	OF ALL ROUTINES	NES 605 DSADMPIIII GBERRORIII	OUMPILITIE RDRUMII III	SORTILILI	IOCHEK!!!!	KALLERIIII	MCHARIIII	OUTPICIIII	9DSRED1111
OCREAT:	LENGTH OCPEATIIII ODP9AGIIII GGRAKIIII	OF ALL ROUTINES	NES 1627 DSADMPITII QDSRYTIIII RORUMITIII	OUMPILLILL ODSTRYILLI SORTILLILL	ENDITE SERVICE	JOCHEK () () OF JELD ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	KALLERIIII	MCHARITITI	007PTC1111	OCEASE::::
0048461	LENSTH GOPPAG:::: OOSPED::::	OF ALL ROUTINES	NES 847 OSADMPIIII GERRORIIII	DUMPILLILI	ENDITITION	TOCHEK::::	KALLER::::	RDRUMITET	SORTILIII	OCEASE::::
ODSRED :	LENGTH QDSRED::::	OF ALL ROUTINES	NES 590 DSADMP::::	ENDITER	10CHEK 1111	KALLERIIII	MCHARIIII	OUTPTC:::	OE RROR!!!!	OF IELDIIII
40 SAYT :	LENGTH ODSRYTIIII OFTELDIIII	OF ALL ROUTINES	NES 663 OSADMP::::	SORTILILI	TOCHEK!!!!	KALLERITIT	MCHARILLE	OUTPTCIII	QDSREDIIII	OERROR: 111
OERROR!	LENGTH OERROR::::	OF ALL ROUTINES	NES 203 ENDITITIT	KALLERIII	MCHARIIII	OUTPICITI	QBERROR: 11			
OF TELD:	QFIELD::::	OF ALL ROUTINES	NES 15							
BECALKE	LENGTH	OF ALL ROUTINES	NES 1306							

	GGCALKIIII ODRBAGIIII RDRUMIIII	SORTIIIII	OSADMP::::	OUMP111111 QOSTRY1111 XMIT1111111	ENDITITION OF RRORITIT	TOCHEK !!!!	KALLER::::	MCHAP11111 060BLK1111	OUTPTC::::	GCEASE 1111 GBERRORIII
9609FK1	CGORLK:::: GGORLK:::: GORRAG::::	OF ALL ROUTINES	NES 944 DSADMP::::	OUMPILITI GERROR, 111	ENDITITIES OF TELDITIES	10CHEK!!!!	KALLER!!!!	MCHAP11111 08ERROP111	OUTPTC::::	SORTILILL
008000	LENGTH QGRBAG:1::	•	F ALL ROUTINES 404	KALLERIIII	MCHARIIII	OUTPTCIIII	OERROR: 111	OFIELDIIII	OFLOSTILLI	OBERROR: 11
0672WD1	LENGTH 0677401.11 0CEASE1111 0609LK1111	OF ALL ROUTINES	CREATXIIII QORBAGIIII QGRBAXIIII	DSADMP::::	DUMP111111 00SRYT1111	ENDITETETETETETETETETETETETETETETETETETETE	JOCHEK!!!! OERROR!!!! SQRT!!!!!	KALLER: 11:1 OF JELD: 11:1 WORUM: 1:1:1	MCHARIIIII OFLDSTIIII	00TPTC::::
OINITL!	LENGTH GINITLIII GERRORIIII	OF ALL ROUTINES	NES 830 05ADMP::::	END11111111	10CHEK1111 RDRUM11111	KALLERITIT	WDRUMIIII	XMITILLILL	ODSREDIIII	ODSRYTIIII
102140	QPTZ*O::::	OF ALL ROUTINES	NES 43	OF IELD: 111	OFLOST::::					
928LOK :	LENSTH GZALOK:::: GCEASE:::: GGGALK::::	OF ALL ROUTINES ITTITITITE CRE OCREATITE ODE OGRBAGITE OG	CREATXIIII ODRBAGIIII GGRBAXIIII	DSADMP::::	00 SRYT ::::	ENDI-	IOCHEK : : : : : : : : : : : : : : : : : : :	KALLER::::	MCHARIIIII OFLOSTIIII	00TPTC::::
GREROR	LENGTH GBERROR:::	•	F ALL ROUTINES 168	KALLERIIII	MCHARITEE	OUTPICIES				
REMOVE	REMOVE::::	0	F ALL ROUTINES 375	KALLERIIII	MCHARILLLI	OUTPTCIIII	OERROR: 111	OFIELDIIII	OFLDSTIIII	0FTZWD1111
#IPOUT:	LENGTH BIPOUTIFF GOSBYTIIII XMITIFF	OF ALL ROUTINES	DSADMP1111 OF IELDI111	DSTROYIIII	END1111111	10CHEK1111	RORUMIIII	MCHARIIII REMOVEIIII	SORTILIER	ODSRED1111
ALTFIII	ALTFILLILL	•	F ALL ROUTINES ST	XMAGIIIIII	XMITILLILL					
11111424	LENGTH	•	F ALL ROUTINES 26 ATANZIIIII ENDIIIIIII							
CEASE	CEASE !!!!! INPUTC!!!! SECONO!!!!	SUBMEADIRE LS	NES 1162 DATEFIIII LSKIPIIIII TITLERIIII	DTIMEF.::: MAKUNIT:::	END 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ENDBOCIFF	EXIT:::::	POIVILIE	MEADITITI	IFENDF 1111 RANF 111111

IFENDF1111 RANF11111	IFENDF::::						SEPAILITIE			SECONDILLI	PDIVIIIII			XMITITIE
HEADIIIII OUTPTCIIII	HEADIIIIII OUTPTCIIII						FDIVILLE			IFENDF1111 RANF11111	EXITIBLE			UNITVILLE
FDIVIIII	FDIVISISS						END::::::			FOTVILLE	ENDDOC: 111			SORTIIIII
EXITITITE	EXITIBLE						0011111111			EXIT:::::	ENDITE I	XMITILLILL		FOIVILLI
ENDDOC::::	ENDDOC: ##						COS1111111			ENDDOCITION	DTIMEFIELE MAKUNITIEE XMITEETEE	SORTIIIII		ENDITITIE FOLVIIIII
END::::	ENDITITITE HCHARITITE						ATANZIIII			MOATE	DATEFILLI LSKIPILLI TITLERILLI	MATDIAGILL		CR051:1111
DTIMEF:::	DTIMEF:::: MAKUNIT:::					SORTIIIII	ASINIIIII			OTIMEF::::	COUNDUTIE! INPUTS::::	FDIVILLI		CROSSIIIII
LENGTH OF ALL ROUTINES 1207 FILLII 1:1111111 DATEFIIII ITCIIII INPUTSIIII LSKIPIIIII	LEMBTH OF ALL ROUTINES 1166 TOUTSE STREET CATEFISSE TICS STREET SURMEADS: STREETS STREETS SURMEADS: TITLERS:	LENGTH OF ALL ROUTINES 77	LENGTH OF ALL ROUTINES 14	LENGTH OF ALL ROUTINES 25	46TH OF ALL ROUTINES 14	LEMETH OF ALL ROUTINES 40	LENGTH OF ALL ROUTINES 773 INGITE ITELETIES ACOSTESSES ITELET SQRTITTE XMAGILITE	LENGTH OF ALL ROUTINES S	LENGTH OF ALL ROUTINES 55	LENGTH OF ALL ROUTINES 1146 31:11: 1:11:1:11: DATEFILIT 175:11: LSKIP:11: HAKUNIT:: 4EAD:: TITLER::: XHIT:::!!	LENGTH OF ALL ROUTINES 1456 IIIIII IIIIII IIIII CHEKFILIII SIIIIII IFFNDFIIII INPUTCIIII TC:::: RANFI::::: SECONDIIII	LENGTH OF ALL ROUTINES 826	LENGTH OF ALL ROUTINES 10	LENGTH OF ALL ROUTINES 244
CHEKFIL CHEKFILII INPUTCIII SECONDIII	COUNDUT LENGT COUNDUTE::: INPUTC::: SECOND:::	CROSSII LENGT	DATEF11 LENGT DATEF1111	DOT::::	DTIMEF: LENGT OTIMEF:::	ELFIIII LENGT	EULANG: LENGT EULANG:::	FDIVIII LENGT	GRAVIII LENGT	MEADIII LENGT MEADIIIII INPUTSIII SUBHEADII	INITITE LENGT HEADITETE	JACOBII JACOBIIII	KALLER! LENGT	CCCLAX; LENGT

LSKIPII	LSKIPIIII	OF ALL ROUTINES	INES 64 OUTPTC::::							
MATA00:	LENGTH	OF ALL ROUTINES	INES 71							
MATOTAG	LENGTH MATDIAG: 1:	100	OF ALL ROUTINES 35 ENDITITIES 35							
MATFLIP	LENGTH	OF ALL ROUTINES	INES +1							
MAT16EN	LENGTH MATIGEN::		OF ALL ROUTINES 900	FOIVILLI	JAC0811111	MATDIAGILL	MATDIAGILI SORTLILILI XMITLLLILL	XMITILLILL		
HATINU	LENGTH		OF ALL ROUTINES 279	FOIVILLE	XHITIIIII					
MATHULT	LENGTH MATHULT::	OF ALL ROUTINES	INES 47							
MATNURT	LENGTH MATNVRT:::		OF ALL ROUTINES 462	FOIVILLE	MATINV: 111	XMITILLILI				
MATRANS	LENGTH MATRANS: 1:	OF ALL ROUTINES	INES 32							
HISTAKE	LENGTH MISTAKE::: INPUTC::::	OF ALL ROUTINES IIIIIIIIII DA INPUTSIIII KAI	INES 1371 DATEFILLI KALLERIII SECONDIIII	DTIMEF:::: LSKIP::::: SUBMEAD:::	ENDITITE MAKUNITER	ENDOOC::::	HDATELLILL	FOIVILLE	HEAD!!!!!	IFENDF11:1 OUTPTC::11
MIXERII	LENGTH	OF ALL ROUTINES	INES 11							
OLDATA	LENGTH	OF ALL ROUTINES	INES 22 OUTPTC::::							
OR811#1	LENGTH ORBTIM::::	OF ALL ROUTINES	INES 198 ACOSIIIIII	AL06111111	C081111111	ENDITITIT	ExPIIIIII	FOIVILIE	SINIIIIII	SORTIIIII
OUTCOLI	OUTCOL:::: INPUTC::::	OF ALL ROUTINES INPUTS:::: LSF SUBHEAD::: TIT	1353 (IP)	DTIMEF:::	ENDI	ENDDOCILLI	EXIT:::::	PDIVILLI	HEADITETT	IFENDF 1111
OUTSET	LENGTH OUTSET::::	-	OF ALL ROUTINES 129 ENDISSISS XMITSSISS							
PACBITI	PACBITIEES	OF ALL ROUTINES	INES 31							

PR02111	PROJESSES		F ALL ROUTINES 61	FOIVIIIII						
RNV	RNVIIIIIII	OF ALL ROUTINES ACGOERIII AL	NES 96	COS.111111	ENDITITIE	RAMFILLE	SINIIIIII	SORTILITIE		
SEPAIII	SEPAILLILL	OF ALL ROUTINES	NES 147	ASINITITI	0071111111	ENDITITIE	FDIVILLI	SORTILILLI	XMAGIIIIII	
SETKORD	SETKORD: 11 IFENDF: 111 RANF: 1: 1: 1:	INPUTCIFF SU	NES 1367 COUNDUTE:: INPUTS::::	DATEFILLI LSKIPILLI TITLERILLI	DTIMEF	ENDITITION MCHARITITI	ENDDOC::::	EXITIE	PDIVILLIA	HEADILILIE
SITEP11	SITEPILLE	COSTITITION EN	NES 74 ENDITITIT	SIMILLILLI	XMITILLILL					
SONICII	SONICIIII	OF ALL ROUTINES	NES 114 ENDITITIT	FOIVILLE						
STALELL	STALE::::	SINITITITI SOL	NES 514 ACGOER::::	ATANZIIII	A2F	COS	CROSSIIIII	DOT:::::::	Elfumu	ENDITITIE
STOUTES	STOUTISTS HAKINITES	ACC ALL ROUTINES	NES 2948 ACGOERIII ENDOCCIII MDATEIIII STALEIIII	ATANA EXITIII HTIME	AZF1111111 FDIV1111111 OLDATA1111 SUBHEAD111	COSIIIIII HEADIIIIII OUTCOLIIII	CROSS: IFENDF::::	DATEFILLE INPUTCILLE OUTSET:	DOTTIE INPUTSITIE	DTIMEFILLE
STREPLI	STREP:::::	0	F ALL ROUTINES 460	AZF1111111	C081111111	ELF	ENDITITIE	FDIVILLILL	SINILLILL	SORTIIIII
SUBHEAD	SUBHEAD:::	OF ALL ROUTINES	NES 134 MCHARIIIII	OUTPICIES	XMITILLILL			,		
SUBVECE	SURVECTITE	OF ALL ROUTINES	NES 27							
111.681	LENGTH TITLER:::: INPUTC::::	INPUTSING LS	NES 1146 DATEFILLI LSKIPILLI XMITITILLI	DTIMEF1111 MAKUNIT111	ENDITITION MCHARITTE	ENDDOC:::	EXITITITE	FDIVILIE	HEADI::::	IFENDF11:1 RANF111111
111.14	LENGTH TITLIN:::: IFENDF::::	INPUTCIFF IN	CHEKFILIII INPUTSIIII SUBHEADIII	DATEFILLI LSKIP	OTIMEF 1111 MAKUNIT:::	ENDITITION HICHARITITION	ENDDOC::::	EXIT::::	FDIVILLE	HEADILE !!
TRNSFH	LENGTH TRNSFH1111	OF ALL ROUTINES	NES 267							

)

TRPLATE LENGTH OF ALL ROUTINES 164

TRPLATE::: ENDISSISS 43

UNITV::: LENGTH OF ALL ROUTINES 43

UNITV:::: :::::::: ENDISSISS 25

VECLIN:::: ENDISSISS 25

VECSUM: LENGTH OF ALL ROUTINES 26

VECSUM: LENGTH OF ALL ROUTINES 26

VECSUM:::: ENDISSISS 24

XMAG::::: ENDISSISS 24

XMAG::::: ENDISSISS 24

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